

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 25th Year
Single Copy \$1.25

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822 Wauona Trail
Portage, WI 53901

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Vol. 25 No. 3 • 291st Consecutive Monthly Issue • Baraboo, Wisconsin • March 1994

Last-Minute U.S. - Russian Temporary Reciprocal Agreements Allow Cosmonaut/Ham to Operate from Shuttle



On the space shuttle Discovery's aft flight deck, Russian cosmonaut Sergei K. Krikalev, U5MIR, prepares for one chore while performing another. Using the Shuttle Amateur Radio Experiment (SAREX) gear, the mission specialist was talking with students in Maine. He holds a camcorder, which was later called into action to record inflight activities. Krikalev joined five NASA astronauts for eight days in space aboard Discovery. Read more about the agreements, the flight, and more SAREX activity during STS-60 on page 5 of this issue.

- NASA photo

RF Standards Opposed

The ARRL has told the FCC that a proposal to adopt new standards for exposure to radio frequency radiation should be terminated.

The League said that the proposal, which would change the Commission's guidelines to match those adopted by the American National Standards Institute (ANSI) and the Institute of Electrical and Electronic Engineers (IEEE) in 1992, was premature, and more properly should have been introduced as an FCC notice of inquiry.

The ARRL said that the ANSI/IEEE standards were not properly delineated and not a proper basis for evaluating communications facilities. The new standards would replace less stringent standards adopted in 1982.

The League said that an FCC Report and Order in 1987 that concluded that amateur stations should be exempted from such RF exposure guidelines, because amateur stations operate only intermittently, and at low power levels, still applies. Only rarely, the League said, would amateur stations even exceed the proposed, more stringent 1992 ANSI/IEEE standard.

The League said that the FCC's proceeding should be terminated in favor of more study, by a more appropriate government agency, such as the Environmental Protection Agency, or else by an FCC notice of inquiry.

This proposal, in ET Docket 93-62, was made in the spring of 1993 and its comment deadline has been extended several times, most recently to January 25, 1994, based on a request by CBS Inc. The reply comment deadline is (was) February 24, 1994.

- ARLB017, 2/4/94

Hams Inform Folks of Gas Leak

By Richard Regent, K9GDF

'Twas a few days before Christmas and all through Park Falls and Phillips, not a creature stirred, until there was a natural gas pipeline leak.

Price County Assistant Emergency Coordinator Robert Martin, KA9EOK of Park Falls, immediately set up communications with a dozen other Price County radio amateurs to assist Park Falls Police Department officers. The gas pipeline rupture left several communities without natural

gas, quite a serious emergency for residents who depend on gas to heat their homes, since they were already coping with some of the coldest winter weather in many years outside.

Amateur Radio communications was invaluable and Price County Emergency Coordinator Dwight Simpson, AG9G of Phillips, is thankful that repairs were quickly made by crews to the pipeline, appreciates the help amateurs gave, and knows that the volunteer efforts of Amateur Radio operators will be remembered by the community. □

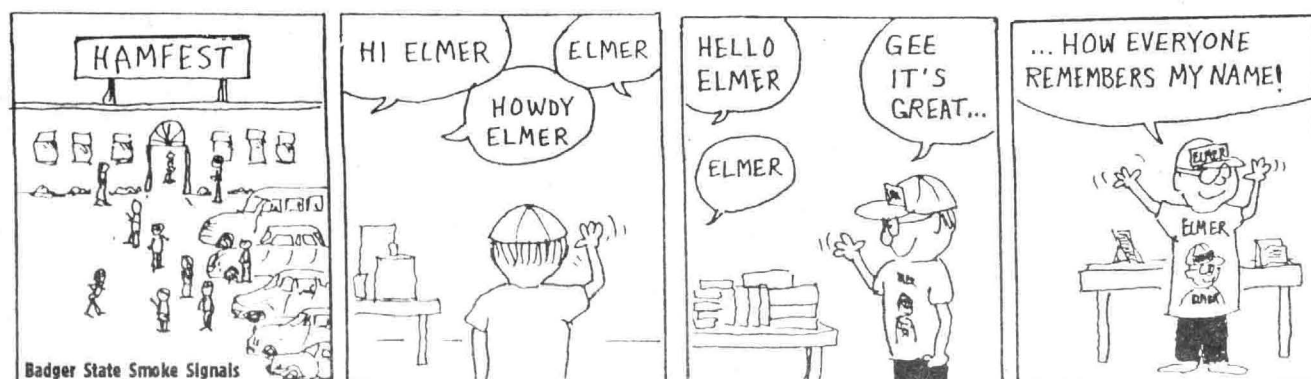
1994 Wisconsin QSO Party

1800Z March 13 to 0100Z March 14

For full rules and information, see February Badger State Smoke Signals, or write to West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53221.

ELMER

By Rich Regent, K9GDF



ON THE INSIDE

What's Happening	2
Wisconsin Nets Association	4
Here and There	5
Tweenies!	6
Vanity Call Signs	7
Meet Sherm Carr, W9NGT	8
The Computer Corner	9
Riverland Amateur Radio Club	10
Watts Snoo (Central Wisconsin Radio Amateurs)	10
Racine Megacycle Club	11
Quarter Century Wireless Association Chapter 162	11
Sheboygan County Amateur Radio Club	11
Washington County Amateur Radio Club	11
ManCoRad Radio Club	12
Taylor County Area Amateur Radio Club	12
Eau Claire Amateur Radio Club	13
Northern Wisconsin Radio Club	13
The Wisconsin Packeteer	14
Yellow Thunder Amateur Radio Club	15

WHAT'S HAPPENING

✕ Swapfests and Other Social Events ✕ Club Meetings ✕ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests

and Other Social Events

SUNDAY, MARCH 20, 1994. Jefferson, WI. Tri-county ARC Hamfest. Jefferson County Fairgrounds, Activity Center, Highway 18 Jefferson, WI. Testing, good food, door prizes, electricity available. Admission \$4.00, Tables \$5.00/6.00. Handicap accessible. Contact TCARC, W9MQB, 213 Frederick, Fort Atkinson, WI 53538. (414) 563-6381 (evenings).

SUNDAY MARCH 27, 1994. LAMARS-FEST at Lake County Fairgrounds, Grayslake, IL. Contact: LAMARSFEST, 650 Green Bay Rd., Lake Bluff, IL 60044.

SATURDAY, APRIL 9, 1994. Rochester, MN Hamfest, John Adams Junior High School, 1525 31st St., NW, Rochester, MN. Contact: Rochester ARC, Colleen Vaneps, N0ZDY, 707 11 1/2 Street SW, Rochester, MN 55902. (507) 280-9102.

SUNDAY, APRIL 10, 1994. 22nd Annual MARA swapfest held at the Dane County Exposition Center Forum Building in Madison, WI. Admission: \$4.00 in advance or \$5.00 at the door. Tables \$10.00 in advance (reserve early as they sell out every year). Contact MARA PO Box 8890, Madison, WI 53708-8890, or call Jim Waldorf, KB9AQQ (608) 249-7579. (see also full ad in BSSS)

SUNDAY, APRIL 17, 1994. Rockford, IL Hamfest and Computer Fair. Contact P.O. Box 1744 Rockford, IL 61125. (815) 399-6995.

SUNDAY, MAY 1, 1994. DEKALB Hamfest. Sandwich Fairgrounds, Sandwich, IL. Contact: KARC, PO Box 264, Sycamore, IL 60178.

SUNDAY, MAY 1, 1994. Burlington, IA Hamfest. Contact: Burlington Hamfest "94", c/o NZDUP, PO Box 911, Burlington, IA 52601-0911.

SATURDAY, MAY 7, 1994. Manitowoc, WI. Lakeshore Hamfest and Computer Swapfest. AT Manitowoc County Expo grounds. VE testing, walk-ins welcome. Registration for exams ends at 9:00 a.m. Exams and registration is at Silver Lake College, (near the hamfest on highway 151). Doors open at 8:00 a.m. Admission is \$3.00 at the door or \$2.00 in advance. Contact Red, N9GHE, (414) 684-9097, Ron, WS9X, (414) 793-4733 nights only or write to: ManCoRad Radio Club, PO Box 204, Manitowoc, WI 54221-0204.

SATURDAY, MAY 7, 1994. The Ozaukee Radio Club will sponsor its Sixteenth Annual Cedarburg Swapfest at the Circle-B Recreation Center, Highway 60 and County I. Contact: ORC Swapfest Chairman, W70 N1018 Hampton Court, Cedarburg, WI 53012. (414) 377-7468.

SUNDAY, MAY 22, 1994. MAYFEST 94, at the DuPage County (IL) Fairgrounds. Contact: G.M.R.s. of Illinois, Inc., 2077 West Roosevelt Road, Wheaton, IL 60187. (708) 690-1492.

SATURDAY, JULY 9, 1994. South Milwaukee Swapfest at Oak Creek, WI. Contact: SMARC, P.O. Box 102, South Milwaukee, WI 53172. (414) 762-3235 ext. 58.

SUNDAY, JULY 31, 1994. Racine Hamfest, Racine, WI. Contact RMC, PO Box 3, Racine, WI. (414) 554-7565.

SATURDAY, AUGUST 27, 1994. Northwoods Amateur Radio Swapfest, at Sugar Camp Town Hall, 12 miles north of Rhinelander, WI on Highway 17. Contact: Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SEPTEMBER 17-18, 1994. SUPERFEST, Peoria, IL.

See also the back page and flyers ads for addition information about many of the above events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of

interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

BADGER AMATEUR RADIO SOCIETY (W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Tue. - 5:30 p.m. - B-265G, Electrical Engineering Bldg. For more information call (608) 262-1142.

CENTRAL WISCONSIN RADIO AMATEURS, LTD. (STEVENS POINT)

Second Wed..

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave., room "C" downstairs. It is the next building west of the Hill Farms State Office building. The meetings start promptly at 7:30 pm.

FOX CITIES AMATEUR RADIO CLUB

Third Mon. - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION

Fourth Mon. of the month at 7:30 p.m. Contact any GMDX member or Dan Reese, N9XX, (414) 529-9806 (before 9 p.m. please) for meeting location.

GREEN BAY MIKE AND KEY CLUB

Second Thur. 7:30 pm - Media Services area of the J. M. Science Building at St. Norbert College in DePere.

GREEN FOX AMATEUR RADIO CLUB

Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS

Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSN

Here are the meeting dates for MARA for 1994: January 10, 1994, March 14, 1994, September 1

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the

material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

MANITOWOC COUNTY RADIO AMATEURS
Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin ST., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tue. - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Last Thursday, Wauwatosa Savings and Loan (lower level) at 7500 W. State St. in Wauwatosa. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB
4th Tue. - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonee, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)
Third Tue.. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhineland, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OSHKOSH AMATEUR RADIO CLUB
The club is attempting to reestablish after several years with no activity.
The first meeting will be held on Sunday, January 16, 1994 at 5:50 p.m. Third Sunday every month thereafter at 5:30 p.m. until further notice.

The meetings will be held at the Omro City Hall, on Webster Street. All Amateurs and other persons interested in radio are welcome.

For further information contact KB9IME (414) 233-7145.

OZAUKEE RADIO CLUB
Second Wed. - 7:30 p.m. - Grafton Multipurpose Senior Center.

QCWA - WISCONSIN CHAPTER #55
Contact: Erwin Froelich, W9RZW, Treasurer, Rte 1 Box 177D, Pine River WI 54965. For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB
Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tue. - 7:00 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.
ARES Net: 146.04/146.64 Mon.s at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)
MEDFORD

Usually the 1st Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room/Red Cross office, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.15 (+600) repeater. Amateurs & guests are welcome. ARES Net, Wed. nights at 8:30 PM on 147.15 (+600) repeater. For info contact: Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405, phone (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Meetings held at members homes. Usually monthly on Sunday afternoon. Contact: Glenn Eisenbrandt, (414) 563-6502 or John Saterlee, (414) 563-6381.

WASHINGTON COUNTY AMATEUR RADIO CLUB
Second Thursday, 7:30 p.m., Washington County Court House. Net on Thursdays at 7:30 p.m. on 146.73.

WATERTOWN AMATEUR RADIO CLUB
First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

WAUPACA AMATEUR RADIO CLUB
First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.
"CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB
Second Tue. - 8:00 p.m. - St. Peters Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

WISCONSIN ASSOCIATION OF REPEATERS
Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: Scheduled meeting dates:
The following is the YTARC meeting schedule for 1994.

Mar. 17	Weather net info Computers in the ham shack.
Apr. 19	Antenna workshop. Fox Hunt antennas.
May 18	Fox Hunt
Jun. 16	Field Day & HF contesting.
Jul. 19	VHF contesting.
Aug. 17	Fox Hunt
Sep. 15	ELECTIONS
Oct. 18	ATV (amateur television).
Nov. 16	Packet radio and computers.
Dec. 15	CHRISTMAS PARTY (date subject to change)

All meetings will be at the Baraboo Civic Center, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

March 12, 1994	Marshfield, WI
March 12, 1994	Madison, WI
March 12, 1994	Oak Creek, WI (MRAC)
March 16, 1994	West Allis, WI (MRAC)
March 19, 1994	Appleton, WI
March 26, 1994	Wauwatosa, WI (MRAC)
March 26, 1994	Menomonee, WI

April 2, 1994	River Falls, WI
April 9, 1994	Madison, WI
April 9, 1994	Oak Creek, WI (MRAC)
April 13, 1994	West Allis, WI (MRAC)
April 16, 1994	Eau Claire, WI
April 17, 1994	Rockford, IL (RARA Hamfest)
April 30, 1994	Wauwatosa, WI (MRAC)
May 7, 1994	Manitowoc, WI (Lakeshore Hamfest)
May 7, 1994	Cedarburg, WI (ORC Hamfest)
May 14, 1994	Medford, WI
May 14, 1994	Madison, WI
May 14, 1994	Oak Creek, WI (MRAC)
May 18, 1994	West Allis, WI (MRAC)
May 28, 1994	Wauwatosa, WI (MRAC)
May 28, 1994	Dubuque, IA
June 4, 1994	River Falls, WI
June 11, 1994	Marshfield, WI
June 11, 1994	Appleton, WI
June 11, 1994	Madison, WI
June 11, 1994	Oak Creek, WI (MRAC)
June 15, 1994	West Allis, WI (MRAC)
June 25, 1994	Wauwatosa, WI (MRAC)
July 9, 1994	Madison, WI
July 9, 1994	Oak Creek, WI (MRAC)
July 9, 1994	South Milwaukee, WI (SMARC Hamfest)

July 20, 1994	West Allis, WI (MRAC)
July 22, 1994	Eau Claire, WI (ECARC Hamfest)
July 23, 1994	Eau Claire, WI (ECARC Hamfest)
July 30, 1994	Wauwatosa, WI (MRAC)
August 6, 1994	River Falls, WI
August 13, 1994	Madison, WI
August 13, 1994	Oak Creek, WI (MRAC)
August 17, 1994	West Allis, WI (MRAC)
August 20, 1994	Dubuque, IA
August 27, 1994	Wauwatosa, WI (MRAC)
September 10, 1994	Marshfield, WI
September 10, 1994	Madison, WI
September 10, 1994	Oak Creek, WI (MRAC)
September 17, 1994	Appleton, WI
September 21, 1994	West Allis, WI (MRAC)
September 24, 1994	Wauwatosa, WI (MRAC)
October 1, 1994	River Falls, WI
October 8, 1994	Madison, WI
October 8, 1994	Oak Creek, WI (MRAC)
October 19, 1994	West Allis, WI (MRAC)
October 29, 1994	Wauwatosa, WI (MRAC)
November 5, 1994	Menomonee, WI
November 6, 1994	Kaukauna, WI (Hamfest)

November 12, 1994	Madison, WI
November 12, 1994	Oak Creek, WI (MRAC)
November 16, 1994	West Allis, WI (MRAC)
November 19, 1994	Dubuque, IA
November 26, 1994	Wauwatosa, WI (MRAC)
December 3, 1994	River Falls, WI
December 10, 1994	Marshfield, WI
December 10, 1994	Madison, WI
December 10, 1994	West Allis, WI (MRAC)
December 21 1994	Racine, WI
Monthly, 1st Sat.	(except January, July & August)
Monthly, 2nd Sat.	Madison, WI
Monthly, 2nd Sat.	Oak Creek, WI (SWAT/MRAC)
Monthly, 3rd Wed.	West Allis, WI (MRAC)
Monthly, 3rd Sat.	Loves Park, IL
Monthly, Last Sat.	Wauwatosa, WI (MRAC) (except December)
Monthly, Last Sat.	Tomahawk, WI (January thru October only)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

(continued on page 14)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Madison ARA Swapfest at Expo Center Forum April 10th.

Special Service Club renewals: Fox Cities ARC, Green Fox ARC. New SSC: Racine Megacycle Club.

New MANCORAD officers: pres N9PBL, vp KB9GOY, treas N9IQZ, secy WD9IAB.

New Four Lakes ARC officers: pres KF9AF, vp NG9V, treas KA9KYB, secy N9DRA.

New Watertown ARC officers: pres N9JUJ, vp KA9DQK, treas WA9YVE, secy WA9OAY.

Milwaukee RAC has repeater on 147.045 MHz.

Fox Cities ARC considering to award a \$200 scholarship this year and their April meeting will be about projects.

Arrowhead RAC, with 162 members, has meetings in the WITC Conference Center in Superior.

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

W9YCV is now great grandfather of boy named Justin.

N9UNR has donated a complete set of ARRL manuals and various radio magazine subscriptions to the Cedarburg Library.

Please turn to page 6

Badger Weather Net Moves to 3.985 MHz

Effective January 30, 1994, the Badger Weather Net moved to 3.985 MHz. Plagued by poor propagation for Wisconsin signals, the net decided to move up 1 kHz where there is less QRM from the east and southeast signals at that time of day.

We're still handling 65-75 messages per session, mostly weather traffic.

Jim, WB9YPY (Chief Liaison to the National Weather Service), has an antenna that seems to favor signals from down east. We had a choice of either rebuilding his antenna, lowering it to, say, 40 feet or so, or give the dial a 1 kHz nudge. The latter seemed to be a better choice. The net starting time remains at 0600 local.

NWS would appreciate weather information from Ashland, Florence, Iron, Marinette, and Oconto counties. They get no input from those areas. Here is an opportunity for amateurs living in those counties to provide a service for NWS.

In February, propagation favoring local (Wisconsin) signals occurs earlier each day. Generally at 6:30 or so, and things improve with the earlier sunrise times. From now on, operating conditions generally improve until summer storm conditions exist.

This decision will put all of the Wisconsin phone nets on the same frequency. We hope you phone operators will remember to give your dials several twists frequently in order to prevent them from rusting in one position.

We recommend trying 3.662 MHz on occasion. You might even check into one of the CW nets. The exercise will enhance your ear-hand coordination. Try it, it's good for you.

- Jim Merrill, W9AYK
Manager, Badger Weather Net

22nd
Annual

MADISON SWAPFEST & COMPUTER FAIR

Madison, WI

Sponsored by Madison Area Repeater Association - WB9AER - Madison, WI

DANE COUNTY EXPO CENTER FORUM BLDG.

TALK — IN ON 147.15 REPEATER

Doors Open at 8 A.M. - Sun., April 10, 1994

BOOTH EXHIBITORS & FLEA MARKET SELLERS WITH 6 OR MORE TABLES AT 3 A.M.

ALL OTHER SELLERS ADMITTED AT 7 A.M.

**ELECTRONIC EQUIPMENT AND COMPONENTS
FOR HAMS, COMPUTER HOBBYISTS AND EXPERIMENTERS
COMMERCIAL DEALERS
FOR BOTH NEW AND USED EQUIPMENT**

DELICIOUS SANDWICHES — DONUTS — ROLLS — COFFEE — POP — MILK

ADMISSION PER PERSON - \$4.00 ADVANCE - \$5.00 DOOR (Children 10 & Under Free)

TABLES - \$10.00 ADVANCE — Reserve Early — Sell Out Every Year

TABLE RESERVATIONS DO NOT INCLUDE ADMISSION PRICE - YOU MUST BUY SEPARATE ADMISSION TICKET

WE URGE YOU TO CARPOOL AS THE COUNTY CHARGES A PARKING FEE!!!

For Information on Exhibitor Booths, Contact MARA, Box 8890, Madison, WI 53708-8890
Or Call (608) 249-7579

ADVANCE RESERVATION COUPON

NAME _____ CALL _____
ADDRESS _____ CITY _____ STATE _____ ZIP _____
PHONE(_____) _____

PLEASE SEND _____ TICKETS AT \$4.00 Per Person

PLEASE RESERVE _____ TABLES AT \$10.00 Each - Table Fee Does Not Include Admission Fee.

TOTAL AMOUNT ENCLOSED \$ _____

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NorWesCo RACES are On

Wes Jones, N9PHS of Shell Lake, and fifteen other amateurs have formed a RACES (Radio Amateur Civil Emergency Service) group for Washburn County and the surrounding area called NorWesCo RACES. Washburn County is located in northwestern Wisconsin. Wes had a career in government land management and law enforcement where he used radios for supervision and dispatch of field crews.

John Leekley, WB9SMM, our Wisconsin ARRL Section Emergency Coordinator, is reviewing the application submitted by Wes to be appointed the Emergency Coordinator for Washburn County, and for the RACES members to become ARES members as well.

This summer, NorWesCo will provide communications for simulated exercises of a chemical spill and a forest fire with evacuation and emergency shelter coordination. Other practice events will include the Grantsburg Watership and the Shell Lake Bike Race.

NorWesCo meets monthly at the Washburn Emergency Operations Center (EOC) and frequently on the 147.300 MHz Hertel repeater every Wednesday at 8 p.m. welcomes check-ins and input or inquiries about taking part in their worthy and exciting activities.

- Richard Regent, K9GDF
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Linked Repeaters Give Wide Coverage for Northern Wisconsin and the Upper Peninsula

A new repeater was put on the air September 4, 1993, on 145.13 (transmit -600 kHz). The repeater is located on Musky Mountain and is called the Sayner Repeater. This machine is permanently linked to the 146.97 Merrill Repeater Association's system on Irma Hill via 440 MHz. Both repeaters have the call sign N9QGJ.

The new system was added to give much-needed hand-held coverage to the Lakeland Area (Minocqua, Woodruff, Sayner, Boulder Junction, etc.) and to provide extended access to the North Central Wisconsin area (Tomahawk, Merrill, Wausau, Stevens Point). Now it is possible to keep in touch from Stevens Point to the U.P. of Michigan.

Like decoration on a nice cake, Sayner opened the door to the U.P. hams in 8-land, and there are a lot of them. The two systems work together. The changeover point is at about Highway K in Oneida County between Tomahawk and Minocqua. To the south, use .97, and to the north, use .13. The system is open and everyone is welcome to use it.

During October, 1993, the KC9NW 440 repeater, located on Mosinee Hill in Wausau joined the link system to extend coverage even farther to the south. It is on 443.75.

There are no club meetings, but if you would like to support the MRA and system, a \$20 annual donation covers your entire family, and includes a roster and autopatch privileges in the Merrill and Wausau areas with 911 in Lincoln County.

For more information, contact Terry Collins, KB9AUP, 18 North Tomahawk Avenue, Tomahawk, WI 54487, phone (715) 453-4633, or call me on 146.97, 145.13, or 145.43.

- Terry Collins, KB9AUP

Instant License Opposed

In reply comments to the FCC on a proposal for instant operating authority for new amateur operators, PR Docket 93-267, the ARRL said that, "almost without exception," groups and individuals who had responded to the proposal agreed with the League that the idea should be shelved in favor of electronic filing of license applications with the FCC.

The ARRL said that the mechanisms for such electronic filing of Form 610s "cannot be more than a few months away at worst."

The League said that the FCC plan would invite abuse because, among other reasons, "The Commission itself suffers an inability to stem the tide of unlicensed operators in any radio service, because of limited enforcement resources."

In response to a counter proposal by the W5-YI-VEC, that the FCC's plan be modified to avoid

abuse by having volunteer examiners assign temporary call signs from blocks allocated to them by the FCC, the League said this would be an unbearable burden and responsibility on the VEs.

The League said that, at any rate, the Communications Act gives no basis for the FCC to delegate call sign assignment authority, including determining a licensee's basic qualifications, which VEs would have no way of doing.

The League once again asked that the proceeding be terminated in favor of electronic filing as soon as feasible.

- ARRL Bulletin ARLB019, 2/15/94

Study Eyes 2300 MHz

A preliminary plan from the National Telecommunications and Information Administration (NTIA) for reallocating government frequencies to non-government uses does not go far enough in responding to the will of Congress in protecting the needs of amateurs, the ARRL says.

Specifically affected would be the 2300 to 2450 MHz band. The preliminary plan would transfer some of that band to new non-government uses, which would not necessarily result in the loss of frequencies for amateurs, but amateur sharing could be more difficult than it now is with government users.

NTIA proposes to leave 2400 to 2402 and 2417 to 2450 MHz as now allocated, in part to permit continued amateur and, especially, amateur satellite operation. 2390 to 2400 and 2402 to 2417 MHz would be made available for new non-government

services as early as August 1994, and 2300 to 2310 MHz would be made available later, under the NTIA plan.

In 1990 the ARRL commented to the NTIA when a study of domestic telecommunications infrastructure was begun. At that time, the League said that Amateur Radio's role of education and public service depended on it not being taken for granted in its modest spectrum needs.

In late 1992 the NTIA issued a notice of inquiry asking spectrum users what their future needs would be, and the League responded with a list, including "continued or upgraded access to 2300 MHz for both terrestrial and satellite uses."

The plan is the proposed implementation of a reallocation of spectrum from government to non-government use mandated by Congress last year.

A public comment period on the plan runs until May 1994.

- ARRL Bulletin ARLB018, 2/15/94

U.S., Russia Give Shuttle Last-Minute Lift, Agree to Reciprocal, 3rd Party Privileges

Russian and American amateurs aboard the early February STS-60 space shuttle flight were able to carry out some of their operating plans only thanks to a last-minute pact between their two countries, who finalized temporary third party and reciprocal operating agreements just after the shuttle lifted off.

On February 3, the U.S. Department of State and the Russian Ministry of Post and Telecommunications each approved the temporary arrangements, which allowed cosmonaut Sergei Krikalev, U5MIR, to contact, on February 6, the House of Science and Technology for Youth, in Moscow.

The contact was retransmitted in Russia on HF and VHF, according to the ARRL SAREX Working Group.

After the two countries approved the arrangements, it still was necessary to obtain a Special Temporary Authorization from the FCC (since operating from the shuttle is viewed the same as operating from U.S. soil). The ARRL contacted the FCC's Personal Radio Branch, and the STA was granted on February 4.

Permanent reciprocal operating and third party agreements between the U.S. and Russia have been in negotiations for several years.

Krikalev's school contact was the first by a cosmonaut from a U.S. space shuttle. Russian coordinators for the event were Leo Labutin, UA3CR, and Valery Agabekov, UA6HZ. During the contact, Aleksandr Kaleri, U8MIR, spoke to Krikalev from the school, and several other cosmonauts were on hand.

Six Russian students were able to ask questions of the shuttle astronauts.

In addition to schools contacted, the shuttle's robot packet station had logged nearly 2000 contacts as of February 7.

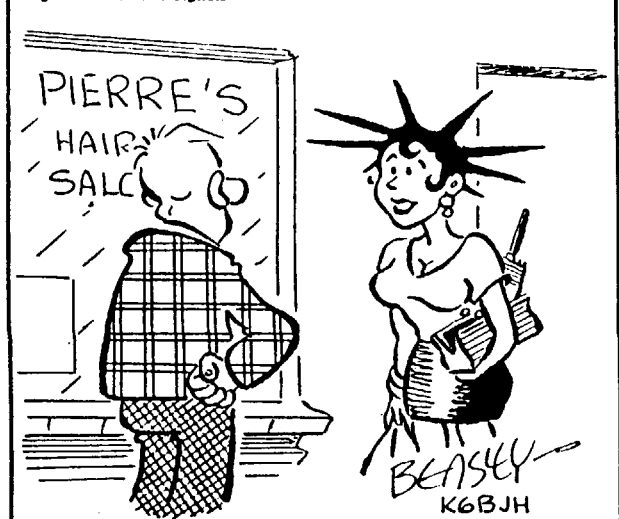
The Associated Press reported this story on Friday morning, February 4, noting that failure to obtain the agreements could have rendered illegal not only Krikalev's contact with the Moscow school but also an amateur-band contact between him and the Russian Mir space station.

The U.S. continues to pursue permanent reciprocal operating and third party agreements with Russia and hopes to conclude them with a signing ceremony later this month (February) in Washington, the State Department said in announcing the temporary shuttle agreements.

U.S. astronauts aboard the shuttle were Charles Bolden, KE4IQB, and Ronald Sega, KC5ETH.

- The ARRL Letter, February 10, 1994

Badger State Smoke Signals



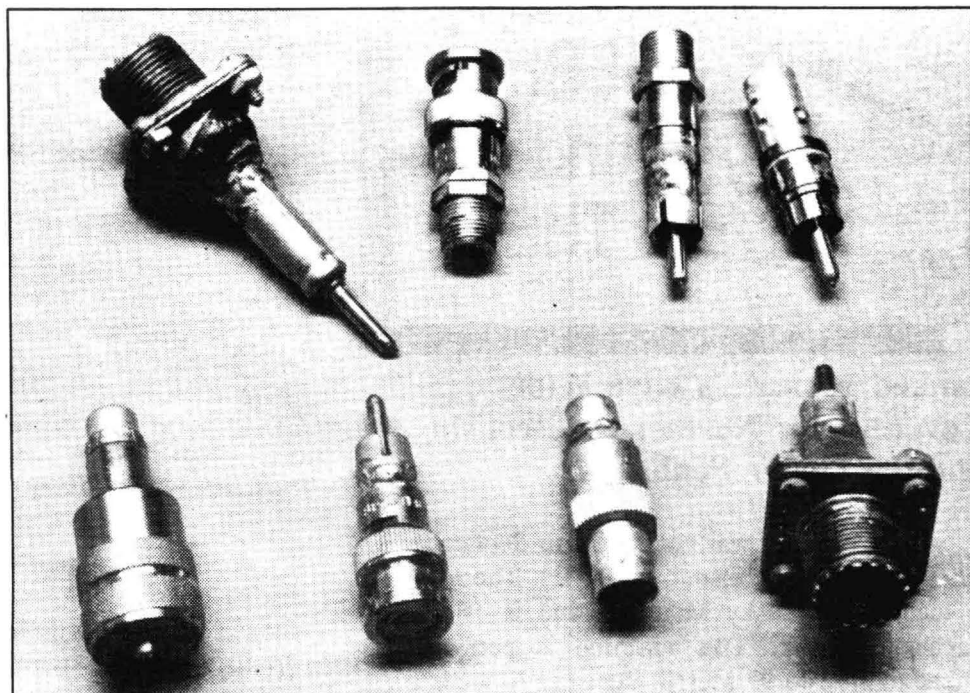
TWEENIES!!

By John W. Frank, WB9TQG
P. O. Box 5113, Madison, WI 53705

You probably won't find "tweenies" in your dictionary. Someone in electronics originally thought up the word years ago to describe what is properly called a "between series adapter" and I've been using it for years.

Although a variety of commercially-made tweenies have been available for a number of years, there are times you may need to connect two pieces of equipment with a patch cord that doesn't have the right kind of connector on one end. What to do? Dig into your box of tweenies. What if you don't have the right tweenie? Dig into your junkbox and fabricate your own tweenie! The eight tweenies in the photo were made as a result of having to connect a brand H signal generator to a brand C transceiver or a brand N antenna to a brand W two-meter hand-held, etc.

Sometimes you luck out when making your own tweenies. Like when the threads on the back of a chassis-mount F connector match the threads inside a BNC. Other times you aren't so lucky; that's when the drill press and the tap and die set come in handy. Within the limits of good sense and the power handling capacity of the connectors, there are very few rules in the making of tweenies. Think about the intended use of the tweenie. I use mine for temporary duty on the workbench, not permanent service out on the tower. How much power will you subject the tweenie to? Small plugs meant for use on a stereo may not hold up too well with 500 watts of RF going through them. Plastic-insulated plugs intended for use on AM receivers may have excessive loss at UHF.



Eight of WB9TQG's tweenies proudly pose to show you how necessity can indeed be the mother of invention.
- Photo by John Frank/WB9TQG

With the right mix of ingenuity and connector parts (along with a dose of good sense), you can probably connect just about anything to anything.

Now, it's time for me to go. A pal of mine wants me to help connect a BlastMaster 3R721 transceiver to a Princess 437 antenna switch. Like I said, you can connect just about anything to anything! □

Section Manager's Notes

Continued from page 4

N9PHS is organizing RACES for Washburn and Burnett counties.

Exams: April 2 River Falls and Racine, April 9 Madison and Oak Creek, April 13 West Allis, April 16 Eau Claire and Milwaukee, April 30 Wauwatosa

and Tomahawk.

Guy Boucher, KB9GPJ of Marshfield, hopes vanity calls will be approved so he can request W9GUY!

Sorry to report Silent Keys W9UCL and W9WWD.

Badger Weather Net meets on 3.985 MHz at 6 a.m. daily.

Let me know if you would like a list of 97 Wisconsin nets.

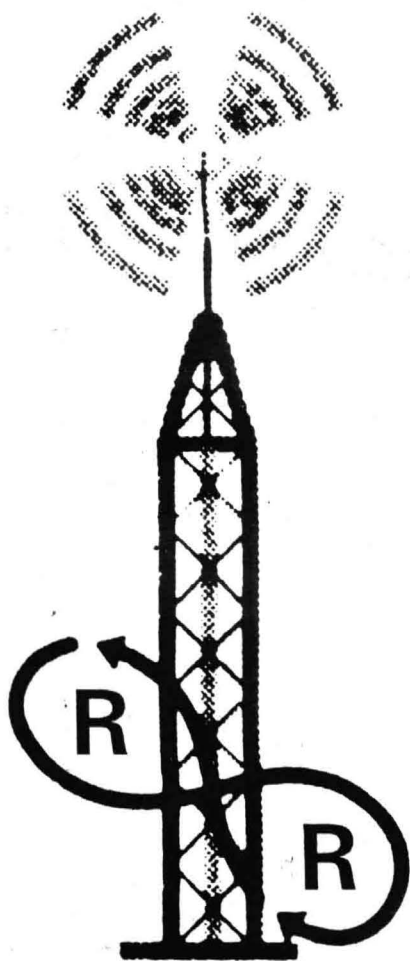
Thought for the month: *Two wrongs are only the beginning.* □

Wisconsin QSO Party Participants

If you operate in the Wisconsin QSO Party, we'd like to have a photo of yourself at your station to publish with the official results here in *Badger State Smoke Signals*. Fixed or mobile stations, "big gun" or "little pistol", 20 contacts or 20,000, please send a picture with your score (two or three photos are even better; that gives us a choice). We look forward to working you in the party, and seeing you here in BSSS with the results in June or July, 1994. Thanks!

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Vanity Call Signs

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

Did you hear about the new FCC proposal that radio amateurs may be allowed to CHOOSE THEIR OWN CALL SIGNS? According to suggestions made by the ARRL Ad Hoc Committee, they say the vanity call sign system should be phased in with a series of four three-month windows. Then the system would be open to all other amateurs. The plan for vanity call signs would be in the following sequence:

1. Those asking for previously held call signs regardless of license class, format or call district.
2. Extra Class block of amateurs,
3. Advanced block, and
4. General block.

So after one year, any amateur would be eligible for any available call sign within his or her area and license class blocks, or a lower class block. (More info is available from FCC Notice of Proposed Rulemaking in PR Docket 93-305 or in QST.)

Do I properly understand the meaning of "any available call sign?" If I moved to W4-land could I request W4KFC, for example, as my new call? The famous Victor Clark, W4KFC now Silent Key, is just one of many well known calls from which I could choose. Would identifying as W4KFC help or hurt me in CW contests? "Is that you, Vic?"

Then my call, K9GDF, would be returned immediately to the pool of available call signs for someone else to request. "Isn't that you, Rich?" Eventually K9GDF could work W4KFC, or is it the other way around? How about being in California and asking for W6KG, made famous by Lloyd Colvin DX-peditions, since Lloyd recently passed away.

There could even be a fancy award for an amateur who works five other amateurs with calls he (or she) previously held. But one way to prevent such "trafficking" in call signs is to require calls to be held at least two years after expiration or trade-in, and they should not be transferable.

Of course there's the possibility of a fee, probably around \$7 per year, which might slow down the burden of serious applications for a few minutes. These days several dollars is only the cost of a tank a gas or an all-you-can-eat fish fry. Maybe the fee should be a one-time occurrence, and should be refunded if none of the call signs on the application are available.

What call would you choose? "Guy" Boucher, KB9GPJ of Boucher Radio & TV in Marshfield, Wisconsin, says "W9GUY would look so good." He would be the W9-guy, for sure.

Your thoughts or response for publication in the BSSS would be most welcome. Be sure to note the call you had before the proposal takes effect and you got a vanity call sign, so we know who you were. □

League Asks for Vanity Call Proposal Comment Extension

The ARRL has requested an extension of the comment deadline on an FCC proposal to establish a "vanity" call sign system.

The FCC's Notice of Proposed Rule Making, in PR Docket 93-305, was released December 29, 1993, with a comment deadline of March 7, 1994.

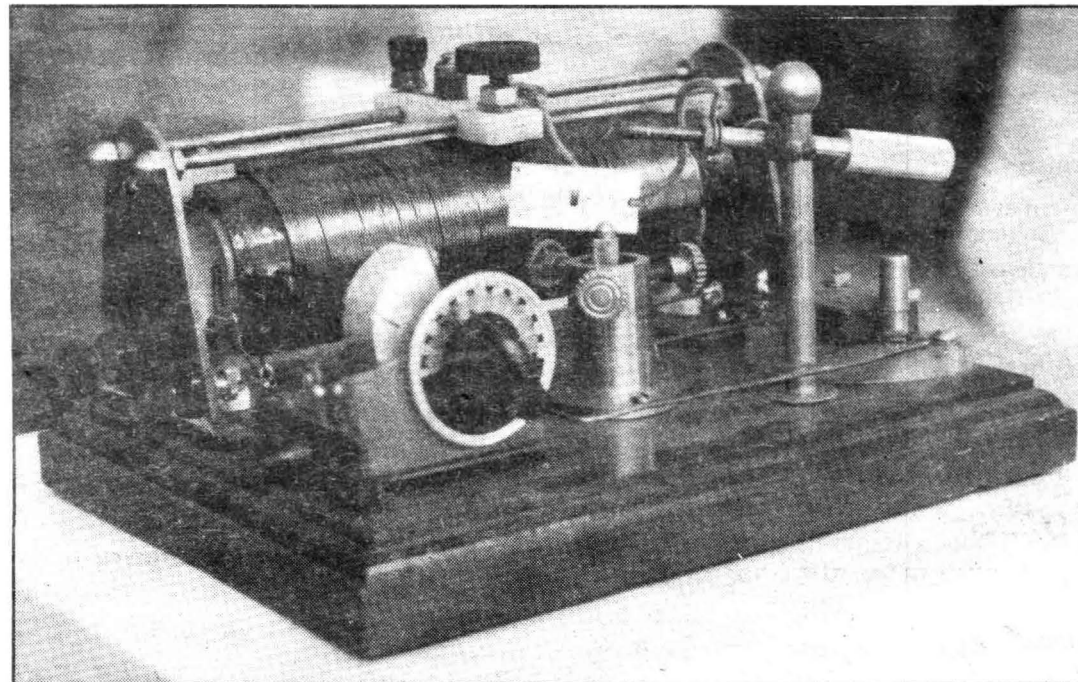
The League immediately published the NPRM, in its entirety, in February 1994 QST, asking members to make their views on the matter known to their elected representatives.

In its request for an extension of time for comments, until April 21, 1994, the ARRL said that because the matter of issuing preferred call signs involves a "scarce resource," the maintaining of fairness in the program must be addressed.

The League also said that the March 7 comment deadline simply did not allow enough time for ARRL members to express their views on the proposal and for the ARRL board to then formulate a position.

- ARLB015, 1/28/94

He DOES Make 'em Like They Used to



Baraboo area resident Dick Pfaff recently built this "crystal set" radio, and several other olden-days radios. Instead of the usual galena, a razor blade is contacted by the "cat's whisker" to form a non-linear (diode) junction, making an AM detector. All of his old/new projects work. Although not a radio amateur, Dick has had a life-long interest in electronics. We'll have more photos and info in our April issue.

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By Rich Regent, K9GDF

5003 South 26th Street, Milwaukee, WI 53221

and

Les Peterson, W9YCV

9741 West Howard Avenue, Greenfield, WI 53228

Both of us got to know Sherm better as the result of our separate interviews. Rich's occurred during the Ozaukee Radio Amateur Club Swapfest on May 1, 1993. My opportunity came while riding with Sherm enroute to the WNA meeting held during the Central Wisconsin Radio Amateurs, Ltd., 16th Annual Swapfest at Stevens Point on Sunday June 13, 1993.

- Les Peterson, W9YCV

On this Sunday, it was one of those typical lovely Wisconsin days. The temperature was ideal and the sky was a moderate overcast, which made enjoyable travel. With Sherm as the pilot and myself as the navigator, we meandered over the state highways on our way to Stevens Point. My interview pad was with me, so what better time than now to learn more about Sherm.

Do you know Sherm? We are sure most active Wisconsin amateurs do know him. However, for those who do not, let us introduce him to you. Fellow amateurs, meet Sherman C. Carr, W9NGT of Hartford, WI. He is that friendly old-timer well respected for his Amateur Radio knowledge of emergency communications, traffic handling, and weather reporting. Sherm, although born in Marion, Indiana in January 1917, has lived in the Hartford area much of his life. His interest in Amateur Radio began during his high school days. It was listening to the QSOs between a couple of amateurs, Bob Gumm and Mr. Lippincott (a teacher) in the West Bend area that got Sherm's interest aroused. These amateurs turned out to be his "Elmers" also. In the late 1930's, Sherm got his first license and the call W9NGT.

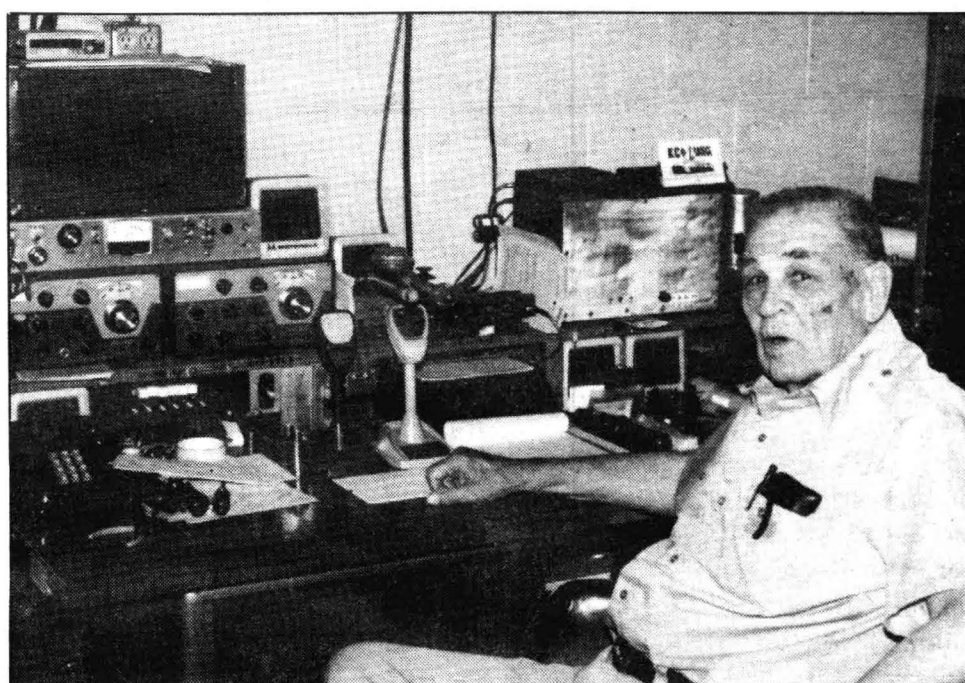
As a member of the Wisconsin National Guard 32nd Division, Sherm got called to active duty in 1939. Some time was spent teaching other guardsmen at the 32nd Division Signal School at Camp Beauregard, Louisiana. This experience was helpful but not quite to his liking. When the opportunity arose in 1942, he transferred into the Army Air Corps and a radio school teaching assignment at Truax Field. Late in 1942, after his discharge from the Army Air Corps (AAC), he enlisted into the Navy. During those Navy days (1942-1945), he worked with codes and ciphers in special services. He also spent some time as Chief Radioman aboard the USS Texas.

With WWII over, Sherm with a wife and two sons chose to lead a civilian life. Sherm and Marianne were married in 1941. His first job was with station WAD, a coastal harbor station at Port Washington, as a radiotelephone operator for the Lorain County Radio Corporation. One and a half years of that were enough. So he went to work for WTMJ in the engineering department. There he gained considerable experience and got in much time as vacation relief operator. He told me about a time during one of those stints that the Goodyear blimp got too close to the WTMJ tower and kicked the station off the air. Sherm also built their 50KW FM station.

In 1951, Sherm went into the broadcasting business himself briefly and built station WTKM in Hartford. From there, he went to work as a Development Engineer for Chrysler Outboard Motor Division of Marine West Bend Aluminum. He worked on electronic ignition and surface gap sparkplugs. He has eleven patents for generator or regulator control systems. "These ignitions worked so good you could shove steel wool into the unit and it didn't stop. It packed a powerful 100 KW of spark," remarks Sherm.

The Outboard Division later became known as Chrysler Outboard Marine and still later became part of the Brunswick Corporation. In 1979, Sherm retired from Chrysler Outboard. He was not ready to take life easy so he became the Washington County Emergency Government Director. "That was a fun job," he says, partly because he got such good support from all levels of county government. A second retirement occurred in 1989 from this last position.

During WWII, the W9NGT license expired. It seems Sherm overlooked sending the card to the FCC that would have kept his license in force. However, Sherm says, "Back around 1954 I phoned Washington, D.C., spoke to H. D.



Sherman C. Carr ("Sherm") at the W9NGT operating position.

- Photo by Les Peterson, W9YCV

Hayes and got my old call back. I'm now a General class but I did have to take the test again."

Back in 1964, when Bill Harms was the National Weather Service man at Mitchell Field, Sherm became involved with ARES and weather spotting. "Wisconsin had the first Amateur Radio spotting network in the country," he said. It was during that period that he was Section Emergency Coordinator for ten years. His involvement with weather continues to be his primary interest in Amateur Radio. Whenever there is bad weather, you can hear Sherm coordinating spotters' reports as the liaison station to the National Weather Service at Sullivan, Wisconsin. In the winter months, he looks for reports of significant snowfalls that occur after the reports sent in by the Badger Weather Net. W9NGT also serves as the communications link between the Great Circus Parade train and the Parade Officials in Milwaukee.

As an ARRL member, his current league appointment is Assistant Emergency Coordinator for Wisconsin. Also, he is a member of the Washington County Amateur Radio Club. Sherm is an active participant in the Badger Emergency Net, the Wisconsin Sideband Net and others.

As mentioned previously, Sherm and Marianne have two sons. Mike, a Coast Guard member, spent some time aboard an ice breaker in the Antarctic. It was at this time Sherm built a big twenty meter amplifier so, "We could talk to Mike via Amateur Radio while he was down there," he said.

In 1987, Sherm was on the 9,000-ton ice breaker "Glacier" himself. Because the "Glacier" was to be decommissioned, this was her last deployment. During transit from Sydney, Australia to Portland, Oregon, the entire crew was in the process of reassignment. As a result, over 500 phone patches took place between the crew members and their families rearranging their affairs.

Their other son, Sheldon (ex-N9BTT), is the owner of Planitronics in West Bend -- a manufacturer of electronic circuit boards. Sherm jokes, "Such technology passed me up long ago -- solid state stuff -- so now I ask my son questions." As for Marianne, she does not have a license but is very supportive of Sherm's interests and activities in Amateur Radio. Since his second retirement in 1989, he keeps busy with Amateur Radio and cassette taping of "78-RPM grinders" -- his project of phonograph record preservation. "I've been exercising on a treadmill and reducing weight, yet my arms are putting on weight," notes Sherm as he moves on to look around the swapfest tables. With a "See you later, Sherm," Rich concluded his interview. As for the conclusion of mine, well, we tied up the loose ends and enjoyed other conversation during the leisurely trip back to Hartford. One item for these interviews remained, and that was to take a picture of Sherm at the W9NGT operating position. After that it was my turn to say "many thanks, Sherm" for this pleasant trip to Stevens Point and interview opportunity. Then I headed for home. □

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In Sauk County, spotters' courses will be held on April 6 in Reedsburg, in Baraboo April 13, and in Sauk-Prairie on April 20. All Sauk County sessions will be from 7:30 p.m. until 9 p.m. Locations for the Sauk County courses were not finalized at printing deadline. For full information, and to register, please call Sauk County Emergency Government in Baraboo at 355-3200. Advance registration is preferred. □

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The Computer Corner

By Stan Kaplan, WB9RQR
11541 North Laguna Drive
Mequon, WI 53092-3119

Article 9 in this series deals with information. Information is power, so we have all heard, and the more I work with computers, the more I believe it! Information will let you build a new computer, upgrade an old one, revive a hard drive that has died, manage memory, and cause your machine to run the way YOU want it to. Where does this information come from? Simple. Books. However, you can waste a lot of money on computer books unless you know which ones to choose. That's the purpose of this article - to help you get the most for your information dollar.

Let's divide the world of computer information and computer books into two areas, software and hardware. Software is the programming part of the field, dealing with operating systems (like DOS 5 or DOS 6) and application programs (like your word processing program, or the utility you use to set the time in your machine when it boots up). Hardware, of course, deals with the stuff you add or remove with a screwdriver, or soldering iron. OK, what should you have on your bookshelf?

EVERY ham has (or should have) a late model edition of the *ARRL Handbook* on their shelf. There is just nothing that can compare with this magnificent volume, now in its 70th edition. By the same

token, in the software area, there is nothing that can compare with the *PC Magazine DOS 6 Techniques and Utilities* (1993), written by master author Jeff Prosis. It will cost you about \$40, but it is well worth the money and it comes with a batch of useful utility programs (on floppy disk, included with the book). EVERY ham who uses computers should have this book on hand. If you use DOS 5 instead of DOS 6, then the previous edition (*DOS 5 Techniques and Utilities*) by the same author is your target. There are a couple of other DOS books out by other authors, and they may be useful, but they do not measure up to the Prosis "bible". The 1993 edition is over 1,000 pages long.

Hardware is a little different, in that I have two different books to recommend to you. The first is sort of the "bible" in the field if you ever delve into the innards of your machine. Scott Mueller's *Upgrading and Repairing PCs, 2nd edition* (1992, Que Corporation, \$36), is clearly the best in the field. It is a bit heavy on true IBM machines and a bit light on IBM compatibles, but that does not detract from its total usefulness. Weighing in at nearly 1300 pages, it contains sections on software and hardware troubleshooting, as well as a terrific Reference Information section. Need to find out the number of cylinders, heads, sectors and so forth for a Fujitsu M2611T drive? You can find it on p. 1076. Mr. Mueller is working on the 3rd edition right now, and if you care to wait until it shows up at your bookseller, you can look for his reference to the paper that AA9W and I wrote on the effects of airport X-rays on data stored on floppy disks. The other hardware "bible" is Mark Minasi's, *The Complete PC Upgrade and Maintenance Guide, 2nd edition* (1993, Sybex, Inc., \$30). This is a real

March 1994 • Badger State Smoke Signals 9
"how to" manual with practical tips and techniques you will find nowhere else. For example, random paging turns up these topics: "How do you find the bad board? Memory chip markings. Upgrading the power supply. Configuring Western Digital XT-type controllers. Troubleshooting dot matrix and laser printers. Reading memory error messages. Troubleshooting steps. General PC disassembly advice." Sound interesting? I just finished attending a two day seminar on Advanced Upgrading and Repairing of PCs run by Mr. Manasi's company, and I can assure you that he and his folks know their stuff. A lot of their tips are in the book; it is a jewel.

There you have it. I never said information was cheap, and these 3 tomes will set you back over \$100. However, I can assure you that these 3 books will cover a large proportion of the software and hardware information you will need to manage and repair your new XT through 286/386/486 machine. In closing, let me remark that prices continue to drop in the used market. XTs with a full 640k of memory are selling in the \$50 range. I purchased a 386SX motherboard with 2 megabytes of memory in a mini-tower case with 230 watt power supply for \$125 in August 1993. Used 40 megabyte hard drives are running in the \$25 range, \$50 for IDE types.

The bargains are out there go find 'em! □

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Audio Distortion and the PK232

By Ron Hooker, K9WTF
S68 W22700 National Avenue
Big Bend WI 53103

I have a PK232 multimode terminal unit that I use on HF. My ICOM 751A, like many of today's transceivers, has an accessory jack that allows interconnection to a device like the PK232. This allows the convenience of not having to disconnect the microphone every time one wants to use this device. Plus, the receive audio is at a set level that is independent of the volume control.

I had my PK232 interconnected in this manner and I received reports that my transmitted audio during SSB use was being distorted. I placed a toroid around the interconnect cable to the IC751A with the same results. When the cable was disconnected at the PK232 end, the problem went away.

I read a message on a packet BBS a couple of months or so ago where people using Kenwood rigs were reporting the same problem, and reported a fix for this problem. The transmit audio line of the PK232 has a 680 ohm resistor to ground. This resistor is located on the circuit board next to the connector that goes to the rig, and is not switched out when switching between radio port 1 and 2. The message on the BBS suggested that this resistor was creating a ground loop and was the cause of the distortion when using SSB.

Recently I removed this 680 ohm resistor from my PK232. I am happy to report that my audio is no longer distorted during SSB operation while interconnected to the PK232. The resistor to remove is R151 if you are using radio port 1, and R152 if you are using radio port 2. The transmit audio level of the PK232 should be checked and readjusted, if necessary, after removal of this resistor. □

This article was reprinted by permission from Hamtrix, the newsletter of the West Allis Radio Amateur Club, Les Peterson, W9YCV, editor. □



Tri-County Amateur Radio Club
Presents:
HAMFEST 1994
to be held on
Sunday, March 20
at
**Jefferson County Fairgrounds
Activity Center**
Hwy. 18 West, Jefferson, WI
from 8:00 A.M. until 2:00 P.M.

Testing — New or Upgrade
Good Food
Door Prizes
Electricity Available

A SPECIAL NOTE TO VENDORS:
• Special needs can be handled if we are contacted in advance.
• Vendors will be admitted at 7 a.m. — OTHERS AT 8 A.M. ONLY.
• Vendors — Please unload at northwest side door.
• Vendors only parking will be provided for unloading.
(PLEASE...NO EARLY SALES — Thank you.)

Plate Lunches and Beverage provided by Jefferson County 4-H. HANDICAP ACCESSIBLE!

TALK IN ON THE 145.49 REPEATER
ADMISSION: \$4.00
6-Foot Table Space — \$5.00 • Some 8-Footers — \$6.00
RESERVE YOUR SPACE EARLY!

SEND YOUR SASE TO: TCARC, W9MQB
213 Frederick, Fort Atkinson, WI 53538
414-563-6381 evenings

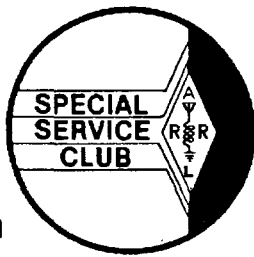
PARTICIPATING Clubs and Organizations

Riverland Amateur Radio Club



Judy Williams, N9LGV
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES JANUARY 4, 1994

The January meeting of the Riverland Amateur Radio Club was called to order by Vice President Greg, KA9FOZ, at 7:03 p.m. There were 27 members present.

Judy, N9LGV, read the minutes of the December meeting. They were approved as read.

Mark, N9UNW, gave the treasurer's report, and it was accepted as read. Mark, the new treasurer, requested clarification of procedure for paying bills.

ANNOUNCEMENTS

None.

COMMITTEE REPORTS

440 REPEATER COM.: Has club caps for sale. Van, WA9FIO, has the Maxie Repeater radios. Art, W0JDC, donated a 1986 International call book and 1984-85 National call book to be raffled off for the repeater fund.

SUPER LINK PROJECT: Clarence, N9NXW, had his letter of inquiry returned due to a wrong address. He will look in this again.

OLD BUSINESS

ANNUAL DINNER: Dick, K0JYB, reminded members of the annual dinner, to be held at Knob Hill in Onalaska. Cocktails at 6 p.m. and dinner at 7.

NEW BUSINESS

DISASTER DRILL: Clarence, N9NXW, announced the Winona Emergency Coordinator is planning a disaster practice drill and was looking for our cooperation - use of repeater, operators. Drill set for late April or early May at the Lock and Dam #7 area. More info to follow.

CLUB GENERATOR: Nook, K9EGO, has volunteers to make necessary repairs; Van, WA9FIO will assist.

CLUB BANNER: Does anyone know the whereabouts of the club banner???

CLUB TRAILER: Kent, W9LZQ, reminded the club the trailer needs to be moved to a less interfering location at Arby's - WF9T. Bob, N9LZQ, will assist to make the move.

ADJOURNMENT

Being no further business, the meeting was adjourned. Motion by Dallas, K9LEC. Second by Nook, K9EGO.

Submitted by
Judy, N9LGV, Secretary

MEETING MINUTES FEBRUARY 1, 1994

The February meeting of the Riverland Amateur Radio Club was called to order

by President Feroz, WU9N, at 7 p.m. There were 25 members present. The club welcomed new member Mike, N9LXI, who is new to the La Crosse area.

Judy, N9LGV, read the minutes of the January meeting. The minutes were approved with several corrections to calls.

Mark, N9UNW, gave the treasurer's report. Mark also reported 42 paid members.

COMMITTEE REPORTS

FIELD DAY: Bill, KE9XQ, will chair the Field Day event. He will be looking for member input on the focus of this year's Field Day, contesting or public awareness.

CLUB PROGRAM CHAIR: Feroz, WU9N, is looking for someone to serve as the program chair. The February and March meetings are planned. A club member is needed to organize monthly club programs.

SWAP FEST: A chair has not been appointed as of yet. Feroz is pursuing a chair.

REPEATER COMMITTEE: Walt, AA9AW, reported that he had been contacted by the owners of the tower on which the K0JYB repeater is located and informed that the tower will be taken down after March 31, 1994. The committee is looking for alternative repeater sites. There will be some costs involved in relocating the repeater.

VEC: Rick, KV9U, has scheduled the next VEC Exam for March 31, 1994 at 7 p.m. at the Onalaska Community Center. Please pre-register for the exam by contacting Rick.

440 REPEATER: Dan, N9PZC, reported that the committee is looking for some additional fund raising ideas. There are also some Riverland Club caps for sale; contact Bob, N9LZK. A frequency has tentatively been selected and applied for.

TOWER TRAILER: Bob, N9LZK, has moved the trailer to a better location at Arby's. He has also inventoried the supplies in the equipment boxes on the trailer. George, KE9PL, has offered to straighten out the tower when the weather gets warmer, if that is possible.

OLD BUSINESS

None.

NEW BUSINESS

DONATION: A \$50.00 donation was made to the 440 Repeater Fund by Jim, N9DBK.

PROGRAM: Following the meeting, there was a program presented by Amean Ayoob of NCR of West Salem. His topic was archiving technology. Pretty nifty.

ADJOURNMENT

A motion to adjourn was made by Duane, W9HWQ, and by Scott, N9RWJ.

Submitted by
Judy, N9LGV, Secretary

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point



WB9QFW 2 Meter Repeater 146.07 MHz and Club Station

P. O. Box 923 • Plover, WI 54467

MEETING MINUTES FEBRUARY 9, 1994

Club President Art Wysocki, N9BCA, called us all to order at 1930 sharp. Treasurer Scott Jasper, NE9U, reported a net loss of a dollar over the last two months.

Secretary Joe Larson, N9JW, received a new Form 610 from the FCC via the ARRL. All old forms will no longer be accepted after March 1, 1994. He and Frank Guth, W9BCC, have a supply of the new forms if anyone needs one.

The club has a new mailing address: it is now Box 923, Plover, WI 54467.

CWRA-sponsored exam dates for 1994 will be June 12 and December 3. The June 12 date will be our swapfest, and December 3 will be the "final" for the license class Joe is planning to run again this year.

Exam fees for ARRL-sponsored exams will be \$5.75 this year. Also, because of the new form 610, you will need to bring photocopies of all your license documentation to enable the examiners to give you proper credit for exams you have already passed. Bring your original license, a photocopy of it, your original CSCE if you have one, plus a photocopy of that as well. Call Joe if you have any questions about exams.

The club also received thanks from the organizers of the Frostbite Run for a communications job well done, and thanks from Ed, W19L, for our recognition of his efforts to get central Wisconsin "connected" to the packet backbone.

Ray Dix, KG9BG, suggested we put a notice about our license classes in the spare room in our slot on the back page of *Badger State Smoke Signals*. Art will check into that.

Now for a report on the local repeater situation. We moved the 146.67 system to a temporary location on the top of the Consolidated boiler house to see if the intermod problems went away. It appears that the input to 146.67 is getting into 146.985, but only when there is a strong local signal on 146.07. We will be moving 146.67 back to its regular home on top of the UWSP library, excuse me, I mean on top of the Learning Resources Center. We'll hook up the phone patch and let the club engineers work on it.

We did track down and fix the worse problem we were having with interference from a commercial paging system in Amherst, with the assistance as noted in last month's minutes. As it turned out, we were told by several other repeater system owners that they had been having the same problems we had. So we did a favor for lots of other central Wisconsin folks. Public service, that's one of the most important things we can do, isn't it.

By the way, our club insurance came in handy for this move. Consolidated was going to refuse to allow us to move the repeater to the boiler house until they found out we had ARRL liability insur-

ance.

Equipment ready for repair: the Field Day rotor, and the Kenwood two meter radio at the club station. We voted to approve these repair expenditures.

Frank Guth, W9BCC, reported that Earl Elder, W9CFL, late of Stevens Point, had passed away. He had an Icom 02-AT with battery, charger, and spare battery, which is now for sale.

Frank would like to get \$300 for Earl's widow if possible.

Wisconsin State Special Olympics will be in Stevens Point on June 9-11.

Field Day will be June 25. This will reportedly also be Al Mallek (K9WVM's) wedding day. This must be one of Al's tricks: he either really doesn't want to work that late CW shift, or he wanted to be sure we would all be busy and wouldn't be able to crash the party. But then, perhaps he's planning to have the reception at the Field Day site. Mike Pagel, KA9LAQ, is the Field Day chairman, and is trying to line up the south end of Schmee-kle Reserve at the shelter building for us.

The swapfest raffle chairman, Lori Jasper, KA9ZGD, is calling for cash prizes, and is planning to have the tickets ready to distribute by next month's meeting.

Tornado Awareness week is set for the end of March. We might be interested in participating with a booth in the mall. Look for more details on this next month.

The ATV downconverter has been found (we won't mention Mike's name), and is back where it belongs.

New calls, fresh as of a week ago are N9WBU and N9WBS. Congratulations guys, welcome and enjoy it.

Next month's meeting will be in A107 at 7:30 p.m. local time in the UWSP Science Building on March 9, 1994.

Attendance

Joe Larson	N9JW
Art Wysocki	N9BCA
Gordon Miller	KE9IA
Adriana Dix	KB9DUR
Ray Dix	KF9BG
Ken Slusarski	N9SDW
Adam Slusarski	
Loren Larson	N9SEA
Mike Urban	KB9GXV
Mike Eiden	WD9JID
Wayne G. Johnson	K9MIF
Mary Eiden	KA9FAS
Frank Podach	N9JQR
Jim White	N9SDU
David Tamres	KB9IIF
Steve Kochanowski	KB9IIE
Mike Pagel	KA9LAQ
Scott Jasper	NE9U
Jeremiah Maller	N9WBU
Frank Guth	W9BCC
Al Mallek	N9WBS
John Kalina	KA9DJA

Respectfully submitted:
Joe Larson N9JW
CWRA Club Secretary

Change to Second Class Mailing for BSSS Delayed

I'm sorry to report that the change from third class mailing to second class mailing of *Badger State Smoke Signals* apparently won't happen with the April issue. There are several reasons, not the least of which is that Ken Ebner, K9EN, our Circulation Department, has to rewrite the mailing list program (yes, he "rolls his own," folks). The Postal Service needs a very different sort than we give them now. We WILL try to begin mailing by second class with the May issue. We're sorry for the delay. But, the faster delivery will be worth the wait.

- Editor

If your club would like to participate in BSSS, write or call Publisher Ken Ebner, K9EN, 822 Wauona Tr., Portage, WI 53901 for details of plans and special reduced rates. Call Ken at (608) 742-3560.

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

THE RACINE MEGACYCLE CLUB MEETING FEB 14, 1994

The meeting was called to order at 7:30 p.m. by President Gary, N9MGH. Everyone introduced themselves. 23 Hams were present.

The minutes as presented in the *Badger State Smoke Signals* were approved with minor correction of a ham call.

Treasurer Dave, AA9HL, gave his report and the latest balance.

OLD BUSINESS

Larry, WA9JMO, discussed the tower ordinance which was passed by the county board. Larry suggested we continue our efforts to add an amendment this spring with a letter campaign and a committee.

Larry also gave a report on the upcoming Ham Dinner. Over 70 hams have signed up so far.

Larry, WA9JMO, had brought a jacket and some caps which we can purchase in several colors and with a logo. Over 15 hams raised their hands to show a willingness to purchase a jacket and cap. Ken, N9NBC, added that he has a supplier for the same items and he was asked to bring information at the next meeting for comparison.

Dennis, WB9SVM, gave a report on the Fox Hunt where the attendance was low last time, probably due to the extreme cold.

Treasurer Dave, AA9HL, reported on the certificates the club had received from the AARL for membership and the Service Club the RMC recently joined.

NEW BUSINESS

Larry, WA9JMO, talked about the Ham Of The Year award which will be given out at the Ham Dinner. A motion was made and seconded that the RMC assist in paying for the awards. Paul, N9RGW, was elected to be the Awards Chairman for the RMC.

The Goodie Box was given to Alex, N9RGX, who promised that it will become a heavy boat anchor. He will have to bring it to the next meeting himself though.

Bob, W0WLN, reported on the upcoming Kenosha County Emergency Service training which will take place June 1. Red Cross in Racine will participate.

The program for the evening was held by Dennis, WA9SVM. Dennis' program

HAM CALENDAR Courtesy Racine Megacycle Club

Mar	14	MEGACYCLE MEETING
Mar	20	Hamfest at Jefferson
Mar	27	Hamfest at Grayslake
Apr	2	Testing at Red Cross
Apr	10	Hamfest at Madison
Apr	11	MEGACYCLE MEETING
Apr	17	Hamfest at Rockford
May	1	Hamfest at Ozaukee
May	1	Hamfest at Sandwich
May	7	Testing at Red Cross
May	7	Hamfest at Cedarburg
May	7	Hamfest at Manitowoc
May	9	MEGACYCLE MEETING
May	15	Hamfest at Peotone
May	22	Hamfest at DuPage
Jun	4	Testing at Red Cross
Jun	12	Hamfest at Stevens Point
Jun	13	MEGACYCLE MEETING
Jul	9	Hamfest at Oak Creek
Jul	11	MEGACYCLE MEETING
Jul	23	Hamfest at Eau Claire
Jul	31	☆ Hamfest Racine!
Aug	8	MEGACYCLE MEETING
Sep	3	Testing at Red Cross
Sep	12	MEGACYCLE MEETING
Oct	1	Testing at Red Cross
Oct	9	Hamfest at Waukesha
Oct	10	MEGACYCLE MEETING
Nov	5	Testing at Red Cross
Nov	6	Hamfest at Milwaukee
Nov	6	Hamfest at Kaukauna
Nov	14	MEGACYCLE MEETING
Dec	3	Testing at Red Cross
Dec	12	MEGACYCLE MEETING

was about the club sponsored Fox Hunts. For this he had brought with him a sophisticated antenna he has been using which is fairly expensive. A low cost version many hams are using can be had for around \$10. Dennis also explained the rules and some of the finer points and talked about some of the fun experiences he has.

The meeting was adjourned at 8:45 p.m.

Respectfully submitted:
Arne, KA9ZPY, Club Secretary.

Sheboygan County Amateur Radio Club

Gregg Meschler, N9PZV, Secretary

2309 North 34th Street • Sheboygan, WI 53083

The February 11, 1994 meeting of the Sheboygan County Amateur Radio Club was a Valentine's Day dinner at Rupp's at Riverdale with 25 in attendance.

COMMITTEE REPORTS

Volunteers were solicited for 2M net control. The net is held every Monday evening at 7:00 pm local time on 147.060 MHz (+, 107.2 PL).

OLD BUSINESS

The brat fry at Woodlake Mall is scheduled for August 27.

Future meeting programs:

March - QSO party,
April - Weather Service (tentative),
May - Field day planning,
June - Field Day final planning,
July meeting will be held at Field Day, June 26th, at Taylor Park.

NEW BUSINESS

Congratulations to Steve Meifert, KF9KZ, for being elected Ham of the Year of 1993 by the membership of the Sheboygan County Amateur Radio Club. Chris, N9VKC, presented the handsomely engraved award during an enjoyable evening at Riverdale Rupp's. Thanks to Al, NF9R, for organizing the event. A copy of the ARRL Operating Manual was raffled off and the club copies of the 1993 Callbooks were auctioned off at a considerable bargain.

A delicious ice cream cake donated by Don, KD9PE was enjoyed by all.

The following day featured a fox hunt. Congratulations to Penny, N9TCF, and Chris, N9TCJ, who were the first to find the fox. They earn the honor of hiding the fox at the next hunt.

Submitted by:
Gregg Meschler, N9PZV

Quarter Century Wireless Association Southern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Racine, WI 53402



Our 13 February Valentine Brunch at the Holiday Inn Harborside in Kenosha was thoroughly enjoyed by the 25 members, spouses and guests attending. The food was delicious, the service was outstanding and the dining companions were world class. At the conclusion of the meal, spouses and guests exchanged Valentine cards with their special QCWA member. Long stemmed carnations, courtesy of the Chapter, that adorned the tables were also exchanged, red for the ladies and white for the gentlemen.

A short business meeting followed. An Anniversary brunch to be held on Sunday, April 17, 1994 at 1 p.m., with the location still to be determined (possibly at Apple Holler restaurant) was approved. QCWA Chapter 162 will be seven years old.


Our annual picnic will be a Pot Luck event and held at the home of Larry, WA9JMO, and Wendy, N9PAC, McCalvy on August 14th or 21st, when the sweet corn is ripe in the fields. Also brought up and passed, was a motion that Chapter 162, join with the other Amateur Radio Clubs in the Southeastern corner of Wisconsin to sponsor the awarding of certificates to deserving Hams. The awarding of Certificates of Meritorious Service and Certificates of Appreciation are to coincide with the annual Ham Banquet in February. A chosen member of

each supporting club will sit on the Awards Committee, chaired by Larry McCalvy, WA9JMO, and review the letters submitted to the committee for their consideration. The certificates will be framed under plexiglass on an oak finished plaque.

Our March meeting is scheduled for the 21st at Apple Holler Restaurant, 5006 S. Sylvania Ave. (I-94 and HWY KR) in Sturtevant beginning at 7:30 pm.


Olie Fox, K9AKG, has returned home after a stay in the hospital. It seems that a bronchial problem wouldn't allow his breathing mechanism to keep up with his activities. The Chapter sent a fruit basket that Bob Jensen, W0WLN hand carried to the hospital to speed up the recovery rate. It must have helped, although Olie still is not to climb stairs. He has his two meter equipment at his bedside; he can join us on our weekly net and converse with our members as they slip and slide around the city streets. Last summer, for Olie's Ninetieth birthday, he took a little spin in a biplane participating in some aerobatics. Olie and the pilot made a date to take that same plane up for a similar ride when Olie hits the century mark. I hope the plane is still around!

73, Larry McCalvy, WA9JMO



Washington County Amateur Radio Club

David Parkinson, KA9RNU,
Secretary/Treasurer
708 Robin Street
West Bend, WI 53095



MEETING MINUTES

The February 10th meeting of the Washington County Radio Club was called to order at 7:35 p.m. by our president, N9NBN. We had 22 people attending the meeting.

A motion was made by AA9EF to delete the reading of the club minutes, because of its inclusion in the *Smoke Signals*. A second was made by KY9P. A discussion was made. The motion was denied. The minutes and the treasurer's report were read and accepted by the membership.

(In the February's issue of the *Smoke Signals*, it was the January's meeting and not the December's meeting).

OLD BUSINESS

The 1994 memberships forms were passed around to be filled out. Also, membership rosters and upcoming club programs were handed out.

N9NBN passed out a couple of sheets which showed the distribution of class licenses in the club's membership. He proposed a class to upgrade from Technician and Technician plus license holders to General class. He stated a number of people inquiring of it and heard many who were interested in teaching, but needed someone to manage or co-ordinate it. He asked anyone to teach. Those who would help from time-to-time, but not at a regular basis were: W9NGT, W9XT, W9SIZ, and K9GR. He asked if we could have a successful class, if we have someone different each week. Brian, N9OFD, will co-ordinate this. Questions were asked, what night, how long, how often, and where. N9NBN also proposed higher class license holders to meet more informally.

N9NBN announced the newly appointed officers to the club. They were W9SIZ as public relations officer, W9NGT as ARRL liason officer, and N9LLS as our field day chairperson.

N9NBN encouraged members to participate at Field Day and give support

to N9LLS. Equipment for field day was also discussed along with those who would lend them.

N9NBN reminded everyone about the Homebrew Contest at our May 12th meeting. Any project you have finished after May 1993 would be eligible.

N9NBN encouraged members to invite others to come to our meetings.

KB9UE announced he had a number of tapes for code practice. (N9NBN recommended to speak to N9OFD).

NEW BUSINESS

N9NBN passed out ARRL pamphlets. W9XT announced the Wisconsin QSO Party which will be held on March 13th from noon and runs for 7 hours. The details are found in the February *Smoke Signals*. He said it one of his favorites.

KA9RNU announced he submitted the 1994 Annual Club Report form to the ARRL. He stated we just made the requirements as an affiliated ARRL club, based on ARRL members in the club. He encouraged members to join the ARRL through the club where we can receive a rebate for members joining.

A motion to adjourn was made by KB9UE, seconded by W9XT, and sustained by the membership.

The program was given by WW1M with a slide show presentation on various antenna installations throughout the nation.

Next meeting will be on March 10th, 7:00 p.m., room 119, Washington County Courthouse.

The upcoming events will be:

✂ March 10, 7:00 p.m., training severe weather spotters, room 119, Jeffrey Last, warning preparedness meteorologist NWS.

✂ April 14, 7:30 p.m., West Bend Red Cross, room 119, Jacki Wicklund, West Bend director.

✂ May 12, 7:30 p.m., Home Brew Project Contest

✂ June 9, 7:30 p.m., Field day preparations, video, good operating procedures. □

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



MINUTES FOR MEETING OF FEBRUARY 9, 1994

The February club meeting opened with the presentation of a videotape (supplied by Dave, WN9Q) by Ron WS9X, of the previous DX-pedition to Peter 1 Island. This helped to provide interesting background information about the island, and the trials and tribulation a DX-pedition has to go through in order to operate from a remote location like Peter 1 island. Ron also mentioned what some of the problems were, that the latest DX-pedition to Peter 1 Island has had to deal with.

Ken, K9HAG, and Mary, KB9GOY, brought photos of the maiden voyage of the Manitowoc car ferry, the MANCORAD 1992 Hamfest, and the Beech Starship aircraft that flew to the 1992 hamfest. Club members viewed these photos after the meeting adjourned. Some of them will be put into the club's photo album.

Club member Craig, N9VIC, participated in this year's Novice Roundup. In the process, he made 232 QSO's, with 60 multipliers, over a nine day period. His final score was 27,600 points. Pretty good for a first time contest effort, Craig!

Steve, N9PBL, read to the club a thank you note the club received from the Manitowoc Public Library, for donating new Novice and Technician class license manuals.

The January minutes were approved as read from the *Smoke Signals*.

OLD BUSINESS

Steve, N9PBL, and Carl, KA9ZTF, have finished drafting the letter that will be sent to the Ozaukee Hamfest committee. This letter expresses our club's desire to work with the Ozaukee Hamfest, to avoid any future scheduling conflicts with the MANCORAD Hamfest. The club voted to approve the sending of the letter to the Ozaukee Hamfest committee.

Chairpersons have been chosen for all of the club's committees. People are still needed for manning the club's committees. Any members interested in participating in any committees, are encouraged to contact Steve, N9PBL, or Eric, WD9IAB.

Red, N9GHE, informed the club that flyers will be handed out at hamfests that precede MANCORAD's to provide advance publicity about the MANCORAD Hamfest.

NEW BUSINESS

Steve, N9PBL, will speak to the Manitowoc County Volunteer Firefighters on April 20 at 9 p.m. in Rockwood. He will talk about the aspects that make up Ham Radio, with an emphasis on the public service aspects of Ham Radio. He is looking for others to also come with him to help with any speaking, and radio demonstrations. Anyone who is interested should contact Steve, N9PBL.

As a part of a nation wide commemoration of Albert Einstein's birthday by Ham radio clubs located near nuclear power plants, MANCORAD will probably operate from the Point Beach Nuclear Power Plant visitor's center. This operation will be on March 12 from 1400-2200Z, on the 10, 15, 20, and 40 meter phone bands. Club members who are interested in operating (you don't have to worry about having only a Novice or Tech. class license, higher class licenses will be on hand as control operators, also, you don't have to stay all day) and as result possibly talking to clubs operating from other nuclear power plants (along with many other hams), should contact Steve, N9PBL, or Eric, WD9IAB.

In order to generate more club participation by club members, MANCORAD will be inaugurating a membership activity contest in March. This contest will run until December. Points will be awarded to club members who participate in club activities such as: meetings, committees, etc. Points will also be awarded for operating activities such as: checking into

the club nets, contest operating, Dxing, VHF Dxing, etc. Rules will be finalized, and mailed out to club members, before the start of the contest. The winner (possibly the 2nd and 3rd place finishers) will probably have their name engraved on a MANCORAD Ham of the Year plaque.

The meeting adjourned at 8:35 p.m.

Respectfully Submitted:
Eric Rugowski, WD9IAB

February 1994 Meeting Attendance

Steve	N9PBL
Glen	N9UTU/AA
Bill	K9DUX
Paul	N9QFX
Mary	KB9GOY
Ron	WS9X
Jan	N9IQZ
Ken	K9HAG
Chuck	N9KGL
Lyle	WB9UTM
Mike	N9UFZ
Jim	N9KGG
Carl	KA9ZTF
Oran	N9VIA
Craig	N9VIC
Dave	N9UGI
Clancey	KB9ECW
John	NZ9Z
Howard	KE9YD
Dick	N9QFY
Jim	KB9IUS
Jim	KB9GOX
Gene	N9UGA
Eric	WD9IAB

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, March 3rd at 7 p.m. in the Emergency Government meeting room/Red Cross office located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz).

EXCERPTS FROM MINUTES OF FEBRUARY 3, 1994 MEETING

Meeting was called to order by President N9GEN. Present were WD9-FWP, WA9YCT, KB9BLV, N9GEN, N9UBS, N9UBQ, N9UBR and N9GHZ.

Motion carried to dispense with the reading of the minutes of the January, 1994 meeting. Treasurer's report by WA9YCT, who indicated he had not yet received the treasurer's records and books from last year's treasurer.

A report was given by N9UBQ, Taylor County Emergency Government Coordinator. The Taylor County Chapter of the American Red Cross will be moving out of their office (our meeting room) in the Taylor County Courthouse in the near future, due to their continued growth and lack of additional space in their present office.

The Emergency Government office recently acquired a portable cellular phone for their use. The number was provided to those members present. Also, for the time being, it appears that the attempt to establish a HAZMAT response team in Taylor County is at a standstill due to a lack of interest.

A grant application has been filed with the Ann Marie Foundation on behalf of our organization. Funds, if approved, will be used to reimburse costs associated with the recent acquisition of new repeater hardware and Amateur Radio equipment for the Taylor County emergency command post bus. A maintenance contract with Northway Communications for our 2-meter repeater was also recently approved by the County.

It was announced that the National Weather Service will be in Medford on March 7th to provide severe weather watch training. N9UBQ stressed the importance of Taylor County Amateur Radio operators listening to the Medford repeater when there is the potential for severe weather conditions to develop, and checking into severe weather nets when they are activated. Taylor County ARES Emergency Coordinator N9GHZ announced that he is working on updating the severe weather watch net plan for Taylor County and that special training in severe weather net operations will be held at an upcoming club meeting.

KA9WDX provided some information on the results of Amateur Radio communications provided for the 2nd Annual Perkinstown Snowshoe Tramp held on January 22 at Perkinstown.

It was announced that KA9WDX, who presently holds Advanced Class license, now has his VE accreditation through the ARRL.

Motion carried to have the club sponsor VE Amateur Radio exams in Medford on May 14, 1994. N9GHZ will arrange to reserve the Taylor County Multi-Purpose Building and N9GEN will contact the Tomahawk VE team to assist us.

There was some discussion regarding the disposition of the 2-meter repeater if the County Board should decide to terminate the agreement that currently exists between them and our organization, in terms of what would and wouldn't they be able to do with the equipment. N9UBQ had already left the meeting at that point, so N9GHZ was directed to contact him at a later date and attempt to get some answers.

Additional discussion centered around a possible name change for the organization, incorporation and obtaining non-profit status.

The meeting was adjourned at 8:18 p.m.

CONGRATULATIONS TO....

☆ Jessica Winzenried, KB9AMX, Colby, who placed second in Impromptu Speaking at the Region II FBLA Leadership Conference held in Wausau on February 5th. Jessica is a Junior at Colby

High School and the daughter of Marc Winzenried, WA9ZCO.

☆ Martin Werner, KB9IQL, Medford, who had a perfect attendance record for the 2nd quarter and 1st semester of the 1993-94 school year at Medford Area Senior High School. Marty is a Freshman.

☆ Aaron Williams, KB9IRP, Medford, who had a perfect attendance record for the 1st semester of the 1993-94 school year at Medford Area Middle School. Aaron is in the 8th grade and the son of Larry Williams, KB9IQO.

OTHER NEWS

Scott Klueckmann of Neilsville received his license on January 29th. His call sign is N9VZG. He also made his first contact, on 2 meters, on that same date. Scott tested at the VE exam session in Marshfield on 11/13/93 and passed the exams to qualify for a Technician Class license.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ,
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are: 1) 147.15 MHz simplex and 2) 146.58 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

Thanks to the following who assisted in providing Amateur Radio communications for the 22nd Annual Abbotsford Christmas Parade held in Abbotsford on 12/4/93: N9GHZ, KB9BVL, WA9CZO (net control station), N9MHV, N9MED, N9ULH, N9LHY, N9IFA, NZ9U, KA9WDX, N9RRF, N9NDT, N9MEH and KB9HTX.

Thanks to the following who assisted in providing Amateur Radio communications for the 2nd Annual Perkinstown Tramp Snowshoe Races and Tours held on 1/22/94 at Perkinstown, in Taylor County: N9LHY (net control station), N9MHV, N9RRF and KA9WDX. There were 179 participants from six states this year, up from 109 last year. There were four individual races; a 3-mile, 6-mile, Mountaineer and 1/4 mile Fun Race for children. The youngest participant was only 3 years old.

NEW PRODUCTS



ICOM IC-T21A VHF AND IC-T41A
UHF HANDHELS

Icom introduces a new generation of handhelds, the IC-T21A and IC-T41A. Packed with innovative new features, the IC-T21A and IC-T41A utilize elastomer construction on the side panels for a grip contoured to fit comfortably in your hand. Combined with a lightweight (11.1 ounce) and compact (2-1/16"W by 4-1/4"H by 1-1/4"D) design, the IC-T21A and IC-T41A are a pleasure to use, even during long

Continued on page 13

Eau Claire Amateur Radio Club

J. Brennan Fitzl, N9LIJ, Secretary

1418 Altoona Avenue • Eau Claire, WI 54701

MEETING MINUTES FEBRUARY 8, 1994

PRELIMINARIES

The meeting was called to order by president Kevin Zehr (N9OHE) at 1937 local time.

There was a general introduction with 30 members and guests in attendance.

The reading of the minutes of the January meeting was waived and the minutes were approved as published in the *Badger State Smoke Signals*.

The treasurer's report was read by Sue Eide (KB9EUP) and accepted by the membership.

OLD BUSINESS

There was a question concerning the location of the ARRL video training tapes owned by the club. N9OHE will check on this.

Jim, N9LIJ, noted that the club has a new mailing address. It is as follows:

Eau Claire Amateur Radio Club, Inc., P.O. Box 1867, Eau Claire, WI 54702-1867.

Don Rassbach (WD9IJY) is looking for ticket-takers for the hamfest. He passed around a sign-up sheet for half-hour shifts. Anyone interested in volunteering should contact Don.

Bill Jablonske (W9NNS) passed out an article from one of the ham radio magazines containing a summary of recent changes to Part 97.

Director's elections: Since there were no further nominations, the present directors were elected to continue in their posts for another year.

K9UXP Repeater: Fred Boetcher

(WU9R) presented material on two repeaters proposed to replace the present 146.31/.91 machine. These are the Kendecom Mark 4 and the Icom RP-1520. He compared prices, features, reliability and perceived suitability for our repeater site. An extended discussion followed, with many questions and comments from the membership. Fred Harlson (KC9NN) made a motion to purchase the Kendecom unit and the motion was carried. W9NNS made the motion that the club should make a down payment on the new machine and request delivery following the July hamfest with the option to request an earlier delivery depending upon received donations by the membership. This motion was also carried.

Kenny Dix (KE9CS) announced that the SKYWARN training classes will be held at Myrtle Wurth hospital in Menomonie on March 26, 1994 from 1-3 p.m.

Lunch committee for March will be KC9NN and N9HME.

The meeting was adjourned for lunch, and a thorough and extremely interesting presentation on weak-signal VHF by Charlie Betz (N0AKC). Charlie is the only 2-meter EME operator in the state. His presentation covered not only EME, but the other VHF modes as well including required equipment, techniques and objectives of the various modes. He also exploded some popular myths about the world above the HF bands.

NEXT MEETING

The next meeting will be held on March 8, 1994 at 7:30 p.m. at the Eau Claire Parks and Recreation Building.

Respectfully submitted:
J. Brennan Fitzl (N9LIJ)
Secretary

NEW PRODUCTS

Continued from page 12

hours of operation.

A backlit keypad allows you to access multiple functions, while a large, easy-to-read display with four selectable levels of contrast indicates 17 different functions plus battery capacity and the sub-band frequency.

The IC-T21A transmits and receives on 144 to 148 MHz; the IC-T41A on 440 to 450 MHz. Both have dual-band receive capability for full duplex crossband operation between the 2-meter and 70cm bands. With Icom's unique "whisper mode" mike, you can have telephone-type QSOs.

Designed for low power consumption while receiving (only 8mA on standby) with an SC-1257 power module for six watts* of RF output power with the optional CP-12 13.8V DC power source or optional BP-153 battery pack, you'll be able to operate longer and even in fringe areas. Standard output for the IC-T21A and IC-T41A is 1.4 watts. An auto power control function conserves battery life by monitoring the repeater signal strength and selecting the best matching power from five levels (down to 15mW). Further, an auto low power function automatically selects 15mW just before battery exhaustion so you can complete your QSO.

Scan three to four times faster than most handhelds (33 channels per second/12.5 memory channels per second). Other scanning functions include scanning

the "bonus band" while the primary band is being scanned. Or use tone scan to identify subaudible tones if you don't know the tone frequency when trying to access a repeater. Further, you can scan all 114 memory channels. Plus, with six priority watch modes, you can monitor other signals while operating on a VFO frequency.

Innovative memory functions allow you to store the operating frequency, tone/offset frequency, skip information and dual-band frequencies for crossband operation. With the RPT-M key, you can quickly recall settings of the repeater you worked last.

With memory select, you can quickly access up to 30 of the 100 memory channels. Memory transfer allows you to transfer a memory channel's contents to VFO. An EEPROM ensures that memory channel information is retained virtually forever.

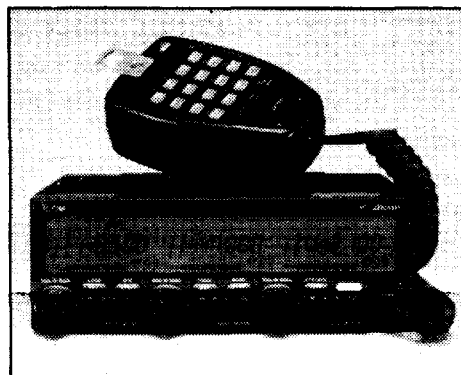
Additional features include the ability to automatically dial your five favorite telephone numbers, a built-in pager, code squelch, pocket beep, and tone squelch.

The IC-T21A and IC-T41A come with a flexible antenna, belt clip, hand strap, rechargeable BP-151 NiCd battery pack, and BC-74A charger.

For information on pricing and availability, please contact your local Amateur Radio dealer or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.

* 5.5 to six hours with 1:1:8 duty cycle (TX high, RX standby).

- Icom news release



ICOM IC-100H TRI-BAND
FM MOBILE TRANSCEIVER

Icom announces the IC-100H tri-band FM mobile transceiver for 144 MHz, 440 MHz, and 1.2 GHz. Three independent band units allow you to receive on all bands simultaneously. A large LCD readout displays complete information for each band, including S/R, volume, and squelch levels. Each band is controlled by a separate volume and tuning knob, and there are three external speaker jacks. In addition, there is an antenna connector for each band so you can use a duplexer or triplexer without any mismatching antenna loss.

The all-in-one IC-100H may be installed as a complete unit, or you can detach the front panel and mount it separately from the main body (with optional OPC-332). The IC-100H can also be remote-mounted, by mounting the main body in the vehicle's trunk with the optional OPC-333 and OPC-335.

Cross-band double duplex (transmit on one band while receiving on two others), cross-band repeat (mini-repeater) and cross-band full duplex (transmit on one

band and receive on another) are possible.

The IC-100H provides exceptional performance. AFC-RIT, AFC-VXO, manual RIT and manual VXO modes are included to compensate for "off-frequency" of the transmit station (1.2 GHz).

The IC-100H has high sensitivity and a double-conversion superheterodyne receiver system, providing more than 2.4 watts of clear audio output power.

Two separate memory banks include a total of 642 memory channels, making this an ideal rig where there's multiple hams in the family. Each memory channel stores the operating frequency, duplex direction, offset frequency, subaudible tone, encode on/off, tone squelch on/off, and skip information.

Priority watch allows you to scan one (or more) memory channels per band while operating on a VFO frequency. You can also transfer call or memory channel contents to VFO. This is particularly useful when searching for signals around a memory channel frequency and for recalling the offset frequency, tone, etc.

Over 22 functions are accessible from the multi-function DTMF microphone including 14 DTMF autodial memories for autopatching, accessing repeaters, and controlling other equipment, etc. The one-touch PTT enables telephone-like conversations without having to continuously press PTT. The beep tones for each band have a distinct sound so you can keep your eyes on the road.

For information on pricing and availability, please contact your local Amateur Radio dealer, or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.

- Icom news release

Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

(Steve Hart, KA9OMC, has been under the weather with a bad cold. He telephoned the following to BSSS, and more information will appear in April BSSS. The auction was very successful;

more info that will be in April BSSS).

The next meeting of the Northern Wisconsin Radio Club will be at 7:30 p.m. on March 22 at the Peppermill Restaurant in Menomonie. □

CWRA (Stevens Point) Exam Dates

Volunteer examination dates for the Central Wisconsin Radio Amateurs at Stevens Point (CWRA) were accidentally omitted from the Test Point section of this issue. The dates are June 12 and December 3, 1994, says Joe Larson, N9JW. We apologize for the omission.

A reminder: When sending ANY material for publication, please send it to the correct BSSS staffer. If in doubt, read the masthead on page 2. That information is correct at least 80 percent of the time. Sending material to the right staffer helps us, it helps you, and it helps our readers. What more could be fairer?



OUR WANT ADS GET RESULTS

FOR SALE: QSTs, 1960s to 1991. Cheap. WANTED: Ten-Tec Argosy 525, DX-30 or 35. Millard Christianson, 424 W. Pine Street, Sturgeon Bay, WI 54235. (414) 743-1310. □

Invitation to Cuba

The Cuban Amateur Radio community has invited American amateurs to participate in a joint operation with Cuban amateurs in the 1994 ARRL June VHF QSO Party.

ARRL Oklahoma Section Manager Joe Lynch, N6CL, was invited to lead the group, during a visit to Cuba the week of February 7. The operation would take place from Bellomonte. Officials of the Federacion Radioaficionados de Cuba (FRC) said they also have taken under consideration a proposal from an American group for a joint operation from Cuba on the HF bands in 1995.

Lynch, in Cuba for a week as a member of a Methodist Church work team, extended greetings from ARRL officials, presented FRC President Ing. Pedro Rodriguez, CO2RP, with a certificate of participation for the June 1993 ARRL VHF QSO Party, and also presented an author's certificate to Arne Coro, CO2KK, for his article in December 1993 QST.

Lynch's informal meetings with FRC officials were publicized on radio, television, and in the print media.

Joe Lynch is VHF editor of *CQ Magazine* and also is editor of the *QCWA Journal*.

- ARRL Bulletin ARLX008, 2/17/94

Radio Show Offered

"This Week in Amateur Radio," an Amateur Radio audio bulletin service, celebrates its first anniversary on March 5.

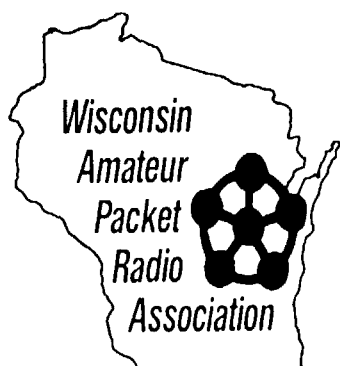
The show, offering news stories of interest to amateurs, lasts 60 to 90 minutes. It is carried on the Omega Radio Network on Saturdays, at 7:30 PM EST.

The program also is available on satellite Galaxy III, transponder 17 (9H), 5.8 MHz wideband audio (4.040 GHz).

Weekly program summaries are circulated on amateur packet bulletin boards, FidoNet, GENIE, USENET, and the Internet. The program is produced by Stephan Anderman, WA3RKB, and George Bowen, N2LQS.

For more information, contact Anderman at PO Box 8592, Albany NY 12208, or via amateur packet at WA2UMX.ENVY.NY.USA.NA.

- ARRL Bulletin ARLX009, 2/22/94



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT
921 8th Avenue • Grafton, WI 53024

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WA8BXN MSYS PACKET BBS COMMAND SUMMARY Version 1.16 December 1993

Abort.....Stop current action
Bye.....Disconnect
Conference.....Multi-user\DX Node
 ^ZH.....Conference help
 ^ZQ.....Return to PBBS
 ^ZU.....List users
 ^ZA #.....Invite user on #
Download.....Download from FILES
Grep.....String search file
Help.....Help
Information....PBBS hardware
ID.....Port definitions
Just Heard....Log
 JB.....BBS Stations
 J.....Digipeater
 J.....Gateways
 JK.....K and KA nodes
 JM.....MSYS PBBSs
 JN.....Net/Rom
 JT.....TCP/IP protocol
Kill.....Kill a message
 KM.....Kill mine
 KT.....Kill traffic
List.....Message headers
 L x.....List category x
 LC.....List categories
 LM.....List mine
 LN.....List not read
 LT.....List traffic
 LL.....List last message
 LL #.....List last #
 LO #.....List older #=yyymmdd
 LU.....List unread to you
 LY.....List read to you
 LW.....List weather
 L?.....List ? forward
 L<< x.....List fm x=callsign
 L>> x.....List to x=callsign
 L@ PBBS...Messages to PBBS
 L #.....List since #
 LL #.....List last #
 L # #.....List from # to #
 L"x".....List with x=string
 L'x'.....List with x=string
 L\$.....List bulletins
Message.....Message of the day
Name.....First name
 NH.....Home board
 NQ.....QTH=City, State
 NZ.....Zip code

Path.....Path to a user
 PF.....Path to a PBBS
 PC.....Request a callsign
Read.....Read a message
 R x.....Read all category x
 R@ xxxx...Read all at xxxx BBS
 R> xxxx...Read all to xxxx
 R< xxxx...Read all from xxxx
 RM.....Read Mine
 RE.....Read for export
 RH.....Read with headers
 RN.....Read only text
 RP.....W/O mark as read
Send.....Send a message
 ^A.....Abort message
 CC.....Carbon copy
 REPLY #....Reply auto title
 SP.....Send personal
 ST.....Send traffic
 SB.....Send bulletin
Talk.....Page sysop
Users.....Users
Version.....Version
What.....Download list
 W x.....What in x=subdir
expert.....Toggle expert

X #.....Lines per page
XC.....Toggle category
XF.....Multiple lines
XR.....Toggle reply
XS.....1 line per reply
Yapp.....Down and uploads
YW.....YAPP Directory
YD.....Download a file
YU.....Upload a file
*Comment to sysop

NETWORK NODE COMMANDS

BBS.....Connect to the PBBS
Bye.....Disconnect
Connect CALL...Connect to call
 C# CALL...C on port # to call
Help.....Help
Info.....Basic Information
Justheard.....Limited output JH
K-Nodes.....K-Node output.....
Nodes.....Nodes heard
 Nodes CALL..Info on node
Ports.....Port information
Routes.....Direct connect nodes
 Route CALL..Other node
Talk.....Page Sysop
Users.....Users/nodes
(above taken from WD9ESU BBS)

THE TEST POINT

(continued from page 3)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT -MRAC/VEC)

SECOND SATURDAY DATES: 1:00 p.m. at Wauwatosa Savings and Loan Branch, 6560 S. 27th St., Oak Creek, WI. (MRAC/VEC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. at Park Manor, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 8:30 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Examinations are administered beginning at 9:00 a.m. to Noon, at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available now will be FCC General Radio Telephone Commercial exams. Fees are \$5.75 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.75, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

EAU CLAIRE, WISCONSIN

April 16, 1994 at St. Olaf Parish School, North Lane, Eau Claire, WI. Please arrive by 11:00 so that we may finish by noon.

July 22 & 23, 1994 at the ECARC Hamfest, Northern Wisconsin State Fairgrounds, Chippewa Falls, WI.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Northern Wisconsin RC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

RIVER FALLS, WI

Exams are held in the church basement, at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, (715) 425-2428.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance and follow the signs to the cafeteria. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

MEDFORD, WI (ARRL/VEC)

Sponsored by the Taylor County ARC, conducted by the Tomahawk VE team. Registration 8:30 a.m. with testing beginning at 9:00 a.m. at the Multi-purpose Building (yellow) at the Taylor County Fairgrounds. Contact: Greg Garner, WA9AW, Tomahawk at (715) 453 7096, or call Tom, N9GEN Medford, at (715) 748-4054.

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

EAU CLAIRE, WI - ECARC HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

CEDARBURG, WI - ORC HAMFEST

ROCKFORD, IL - RARC HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on May 28, Aug, 20 and Nov, 19 in 1994.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

Contact: Arthur A. Evans, KA9KLZ, 213 N Jefferson St., Cuba City, WI 53807-1558, (608) 744-2704

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (Great Lakes ARC VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Paul K. Dean, WB9HGZ, (815) 987-6754.

Out of State Exams

Information Provided
by the ARRL/VEC

ALL DATES 1994

NORTHERN ILLINOIS

02/10, Antioch, 708-395-0999,Anthony Viverito
02/12, Dixon, 815-284-6380,Charles W Randall
03/10, Antioch, 708-395-0999,Anthony Viverito
04/14, Antioch, 708-395-0999,Anthony Viverito
05/12, Antioch, 708-395-0999,Anthony Viverito
06/09, Antioch, 708-395-0999,Anthony Viverito
07/14, Antioch, 708-395-0999,Anthony Viverito
08/11, Antioch, 708-395-0999,Anthony Viverito
09/08, Antioch, 708-395-0999,Anthony Viverito
10/13, Antioch, 708-395-0999,Anthony Viverito
11/10, Antioch, 708-395-0999,Anthony Viverito
12/08, Antioch, 708-395-0999,Anthony Viverito

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The February 16, 1994 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:30 p.m. by Bob Sauvan, WT9Q.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT was busy accepting membership renewal applications and money and thus did not give a financial report this evening.

OLD BUSINESS: Art Kleefisch, W9WSS gave the club an update on the status of renting a meeting room at the Baraboo Civic Center after July. Civic Center staff won't know until about May whether or not we will be able to continue renting a room as we had been. A general discussion was held as to where else the club could meet. No decisions were made nor a subcommittee appointed to investigate alternative meeting sites. No individual or individuals agreed to take the responsibility of coordinating teaching a class this year, though there were several members present who could teach part of the classes. This will be discussed again at the next meeting.

NEW BUSINESS: Dave Grant, N9VHS, and Kenneth Sampson (call sign pending) submitted their applications to become members. Both were voted in. Congratulations and welcome to the club! Bob Sauvan mentioned the upcoming QSO Party on March 13th. Allan Johnson reported that a new 610 will be going into effect March 1, 1994 and passed a copy around. L.J. Hemmer, WB9TFJ announced he and his wife was moving to Madison and may not be attending any more meetings, but his son was staying in the area and "would be checking up on us". Art Kleefisch moved at 8:10 pm to adjourn the meeting which was seconded by L.J. Hemmer. Someone then remembered Buck Nite but the secretary forgot to

record the outcome.

Following the business meeting, Pete Sweeney, WD9JIB, and Tim Stieve, Sauk County Emergency Government Coordinator gave a presentation (and pitch) for the clubs involvement in providing communication assistance in emergencies in the county.

The next meeting will be held Thursday March 17, 1994 at 7:30 p.m. at the Baraboo Civic Center. The program following the business meeting will be on weather net info and computers in the shack.

Sincerely,
Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Robert Sauvan	WT9Q	Sauk City
Pete Sweeney	WD9JIB	Reedsburg
George Gabaay	N9QOR	New Lisbon
Steve Schulze	N9UDO	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Steve R. Schwoegler	WB9RNL	Wisconsin Dells
Jim Paul	N9LKY	Merrimac
Art Kleefisch	W9WSS	Baraboo
L.J. Hemer	WB9TFJ	Baraboo
Rohbert Hemmer	N9LKX	Baraboo
Tim Stieve, guest		
Marvin Kaiser		Wisconsin Dells
Jim Decker	WB9UQT	Baraboo
Harry Mayland	K9FFT	Baraboo
Allan Johnson	AA7CS	Reedsburg
Dave Grant	N9VHS	Baraboo
Ken Ebnetter	K9EN	Portage
Thomas Harrison	N9PQJ	Reedsburg
Raymond Matlosz	N9MLZ	Reedsburg

WANTED: Hallicrafters S41 Sky rider Jr , Collins 32-V3, Collins 75A series speaker (prefer speaker with light). Joe Eide, KB9 , 2623 Clare St., Eau Claire, WI 54703. (715) 834-4582.

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EASTERN IOWA
02/19, Dubuque, 319-557-9149,Carl E Clark
03/27, Davenport, 319-355-5517,Roger Franke
05/28, Dubuque, 319-557-9149,Carl E Clark
08/20, Dubuque, 319-557-9149,Carl E Clark
11/19, Dubuque, 319-557-9149,Carl E Clark

UPPER MICHIGAN
04/09, Houghton, 906-337-2542,George R Thurner
07/09, Houghton, 906-337-2542,George R Thurner
10/08, Houghton, 906-337-2542,George R Thurner

MINNESOTA
02/11, Cottage Grove, 612-459-8678,David Harrell
02/12, N Branch, 612-444-9814,Bradley Fern
02/19, Cottage Grove, 612-459-8678,David Harrell
03/19, Cottage Grove, 612-459-8678,David Harrell
04/09, N Branch, 612-444-9814,Bradley Fern
04/16, Cottage Grove, 612-459-8678,David Harrell
05/21, Cottage Grove, 612-459-8678,David Harrell
06/11, N Branch, 612-444-9814,Bradley Fern
06/18, Cottage Grove, 612-459-8678,David Harrell
08/13, N Branch, 612-444-9814,Bradley Fern
08/20, Cottage Grove, 612-459-8678,David Harrell
09/17, Cottage Grove, 612-459-8678,David Harrell
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10/15, Cottage Grove, 612-459-8678,David Harrell
11/19, Cottage Grove, 612-459-8678,David Harrell
12/10, N Branch, 612-444-9814,Bradley Fern
12/17, Cottage Grove, 612-459-8678,David Harrell

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Only a season like a Wisconsin winter could make you look forward to the first bug on the windshield
-- Bill Smith, The Wonewoc Reporter.

Shopper's Guide

SWAPFESTS



21st ANNUAL MIDWINTER SWAPFEST

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MADISON SWAPFEST

April 10, 1994

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Forum Building

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SOUTH MILWAUKEE AMATEUR RADIO CLUB

SWAPFEST 94

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Shepard Ave. • Oak Creek, WI

(414) 762-3235 Extension 58
P.O. Box 102 South Milwaukee, WI 53172

Fox Cities Hamfest

November 6, 1994

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:

Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:

Larry Siebers, KD9IA
414-788-3823

Lakeshore Hamfest & Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

Saturday, May 7, 1994

For more information, call:

Ron, WS9X: 414-793-4733 (Nights)
Red, N9GHE: 414-684-9097

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Radio Club, P.O. Box 3508, Peoria, IL 61612-3508 or telephone answering machine 309/685-6888.

CWRA SWAPFEST

Sunday, June 12, 1994 • 8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: Art Wysocki, N9BCA
3356 April Lane

715-344-2984
Stevens Point, WI 54481

EAU CLAIRE AMATEUR RADIO CLUB SWAPFEST

July 23, 1994

Chippewa Falls Fairgrounds

Mike Ceraso, N9JMA
(715) 723-9205

2432 Shafer Road
Eau Claire, WI 54729

RACINE HAMFEST 94

July 31, 1994

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Ozaukee Radio Club 16TH ANNUAL RADIO AND COMPUTER SWAPFEST

Saturday, May 7, 1994

8 a.m. to 1 p.m. • Circle B Recreation Center
Intersection of Highway 60 and County I
Exams by Badger Examiners, c/o Gary Sharbuno,
5119 W. Willow Rd., Brown Deer, WI 53223
Swapfest sponsored by Ozaukee Radio Club
W70 N1018 Hampton Court • Cedarburg, WI 53012

Kettle Moraine Radio Amateurs

SWAPFEST

Sunday, October 9, 1994

Waukesha County Expo Center

Info: KMRA Swapfest

P.O. Box 411

Waukesha, WI 53187-0411

Northern Wisconsin Radio Club

AUCTION

February 28, 1995 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
Route 1 Box 54

715-665-2374
Knapp, WI 54749

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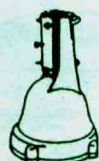
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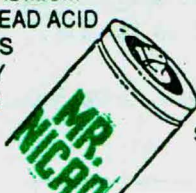
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